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Registered as a Newspaper

No. 2982
VOL. CXXVI

APRIL 3, 1937

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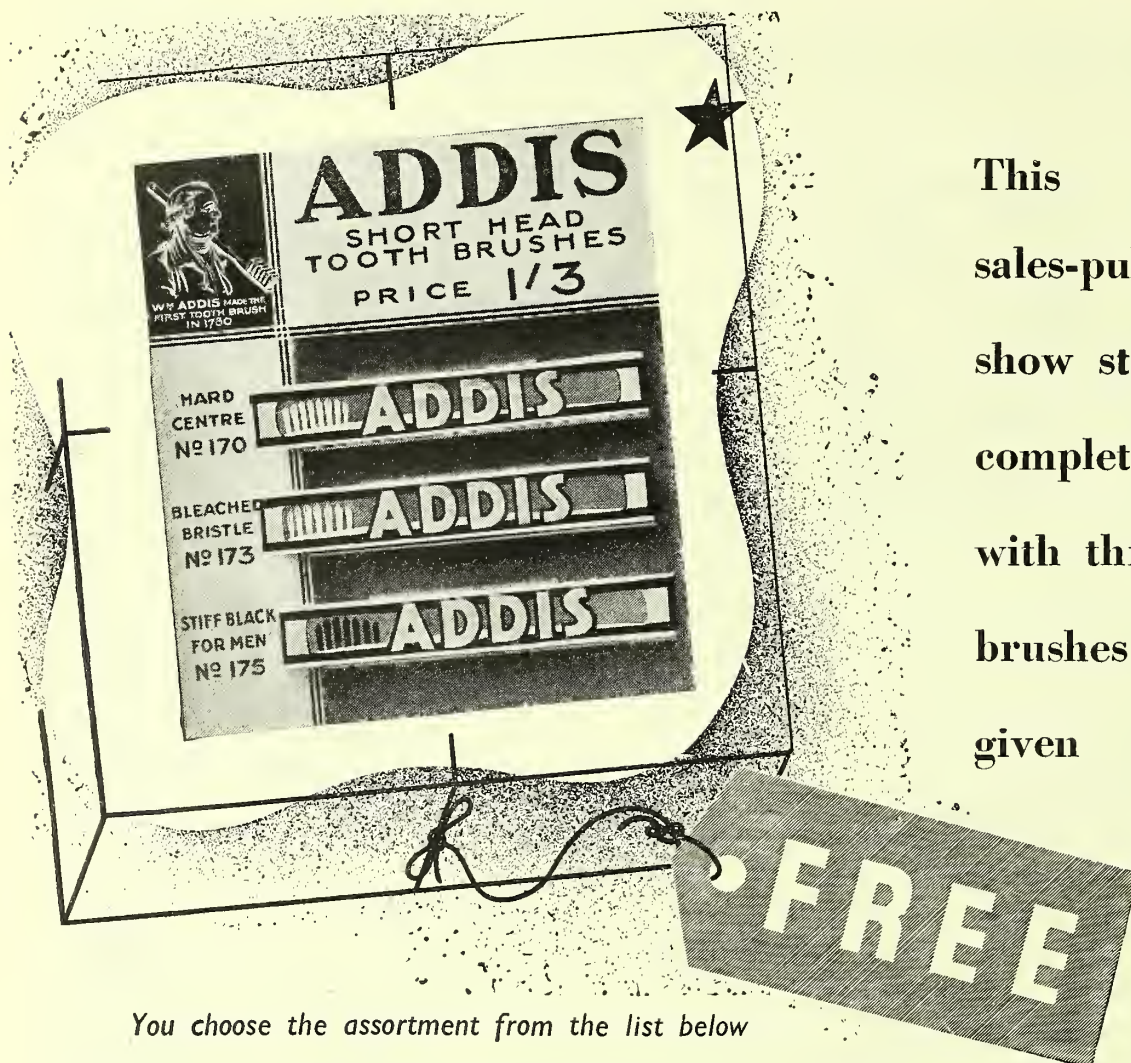


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INDEX TO ADVERTISERS

Acton Pill & Tablet Co., Ltd. (Uricure Tablets)	26	Cataline Co., Ltd. (Veterinary Medicines)	22	George, Ernest J., & Co. (Valuers, &c.)	Col. Supp.
Addis Brush Works (Tooth Brushes) ...	2	Chemist and Druggist, The Leader Page		Gibson, Robert, & Sons, Ltd. (Sulphur and Fig Tablets)	x
Allen & Hanburys, Ltd. (Lysantol Pastilles)	Front Cover	Christy, T., & Co., Ltd. (So-it-is Denture Powder)	26	Hackett, S. E. (Film Overstocks)	Col. Supp.
Anzac Cachets Co. (Anzac Cachets) ...	vi	Clark, Cicero S. (Cachets)	vi	Hampden Residential Club	Col. Supp.
Armstrong Cork Co., Ltd. (Corks)	8	Clark, S. F. (Valuer, &c.)	Col. Supp.	Hampshire, F. W., & Co., Ltd. (Window-Dressing Contest)	4
Association of Manfg. Chemists, Ltd.	Col. Supp.	Continental Laboratories, Ltd. (Taxol) ..	ii	Harkness, Beaumont & Co., Ltd. (Malt Products, &c.)	vi
Barnett, Jack L., Ltd. (Bottles)	Leader Page	Cooper Laboratory, Ltd. (Tablets and Pills)	vii	Harley, T., Ltd. (Rodine)	24
Beatson, Clark & Co., Ltd. (Bottles) ...	9	Corn Products, Ltd. (Karo and Dextrosol)	xii	Hayman & Freeman (Buccaline Vaccine Tablets)	Leader Page
Beechams Pills, Ltd. (Beechams Products)	xvi	Coty (England), Ltd. ("Air Spun" Face Powder)	15	Hedley, T., & Co., Ltd. (Glycerine) ...	lii
Bell, John, Hills & Lucas, Ltd. (Tin-Ox Tablets)	Leader Page	County Perfumery Co. (Brylcreem) ...	16	Holroyd's Oil and Ceresine Co., Ltd. (Liquid Paraffin, &c.)	x
Benckiser, J. A. (Tartaric Acid, &c.) ...	ii	Cox, A. H., & Co., Ltd. (Slimming Tablets)	Cover iv	Hopkin & Williams, Ltd. (Chemicals)...	iv
Berdoo & Fish (Valuers, &c.)	Col. Supp.	Coxeter & Son, Ltd. (Nitrous Oxide) ...	iv	Hough, Hoseason & Co., Ltd. (Tab. Arthritone)	5
Blackie, R. (Spun Ointments and Creams)	12	Crookes Laboratories (Halibut Liver Oil)	3	International Medical Agency & Estates Ltd.	Col. Supp.
Blackwell, Hayes & Co., Ltd. (Galenicals, &c.)	ii	Darrasse Freres (Pepto-Fer)	x	Jefferson & Son ("Hernicura" Trusses, &c.)	18
Blythe, W., & Co., Ltd. (Chemicals) ...	vii	Dinneford & Co., Ltd. (Magnesia Tablets)	xi	Josephs, Philip, & Sons (Shopfittings) ..	27, Col. Supp.
Bob Martin, Ltd. (Dog Remedies) ...	20, 21	Distillers Co., Ltd. (Dried Yeast, &c.) ..	xii	June Hair Curler Co. (Slumber Helmet, &c.)	13
Bolton, C. V. (Optical Tuition)	Col. Supp.	Dudley & Co., Ltd. (Display Fittings) ..	24	Khaa Cosmetic Co. (Beauty Treatment)	12
Booker, Jay & Co., Ltd. (Limacon)	14	Duncan Flockhart & Co. (Hay Fever Vaccines)	iv	Lamb & Watt, Ltd. (Egg-Nog Tonic Restorative)	xii
Brady & Martin, Ltd. (Galenicals, &c.) ..	viii	Evans, Adlard & Co., Ltd. (Filter Papers)	22	Lax & Shaw, Ltd. (Bottles)	11
British Cod Liver Oil Producers (Hull, Ltd.)	xiii	Fecher, M. J., Ltd. (Drop Bottles, &c.) ..	10	Lockett, J., & Co. (Earthenware Dispensing Requisites)	8
British Drug Houses, Ltd., The (Llvogen)	32	Ferber, Robert, Ltd. (Capsules)	viii	Lofthouse & Saltmer, Ltd. (Halibut Liver Oil)	26
British Emulsifiers, Ltd. (Emulsifying Machines)	23	Ferris & Co., Ltd. (Nepenthe)	viii		
Bugges Insecticides, Ltd. (Warble Fly Dressing)	22	Gardiner & Co. (The Scotch House), Ltd. (Overalls)	18		
Burge, Warren & Ridgley, Ltd. (Surgical Rubber Goods)	26	Gardner, W., & Sons (Glos.), Ltd. (Machinery)	23		
Burroughs, James, Ltd. (Alcohol for Perfumery)	Leader Page	Garfield Tea Co.	xiv		
Burroughs Wellcome & Co. ("Ryzamin-B," &c.)	31				

(Continued overleaf.)



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INDEX—cont.

London & Provincial Factors, Ltd. (Wanie Blades)	14	Parfumerie Amos (Lipsticks, &c.)	26	Smith, T. & H., Ltd. (Alkaloids)	iii
London College of Pharmacy	10	Parke, Davis & Co. (Euthymol).....	Cover ii	Southalls (Birmingham), Ltd. (Sanitary Towels)	18
Low, Son & Haydon, Ltd. (Toilet Preparations)	26	Pendred & Heim (Perfume and Toilet Bottles)	26	Starke, R. W. B. (Camomile Oil)	Leader Page
McGlashan, D., Ltd. (Abdine)	xiv	Perken, Son & Co., Ltd. (Clinical Thermometers)	18	Sterns, Ltd. (Oils, Petroleum)	viii
Manesty Machines, Ltd. (Oscillating Granulator)	27	Pindar, J. W., & Co. (Pharmaceutical Machinery)	26	Stevenson, H. E., & Co., Ltd. (Zinc Oxide "Puriss")	xi
Martin, Bob, Ltd. (Dog Remedies)	20, 21	Potter & Clarke, Ltd. (Wholesale Druggists)	29	Swann, W. R., & Co., Ltd. (Kleen Razor Blades)	12
Matthews, D., & Son, Ltd. (Shopfittings)	Col. Supp.	Prentif, Ltd. (Contraceptive Products)	22	Thompson & Capper Wholesale, Ltd. (Manesty Machines)	27
Maund, F., & Berg, E., Ltd. (Show-cases)	26, Col. Supp.	Prichard & Constance (Mfg.), Ltd. (Amami Bonus Offer)	14	Thornton & Ross, Ltd. (Olive Oil) ..	vi
Merx Optical Co., Ltd. (Eyetex Sun Goggles)	24	Prideaux's, Ltd. (English Dried Milk) ..	xv	Town Talk Polish Co. (Liquid Silver Polish)	xiv
Michel Cosmetics (Lipstick)	17	Radio Times, The	25	Van Deuzens (Nitrogen Fertiliser)	26
Midgley & Parkinson, Ltd. (Yeast Preparations)	Leader Page	Read, F. W., & Sons, Ltd. ("Duo-Ray" Infra-Red Ray Apparatus) ..	18	Viscose Development Co., Ltd. (Viskaps)	10
Milford Products, Ltd. ("Genic" Solid Disinfectant, &c.)	xi	Reckitt & Sons, Ltd. (Dettol)	xiv	Vitality Vitamin Laboratories, Ltd. ("Renovita")	22
Molson Ionized Iodine Co., Ltd.	26	Reid, T., & Sons, Ltd. (Bamyl Shaving Soap, &c.)	12	Vosemar Co. (Hair Curlers)	16
Monsanto Chemicals, Ltd. (Sodium Salicylate, B.P.)	Cover iii	René Cos, Ltd. (Veloshave)	12	Wagner, R. V. (Dry Bottle Caps)	10
Mundet Cork Products, Ltd. (Corks and Stoppers)	8	Robinson & Sons, Ltd. (Mene Towels) ..	Leader Page	Waide, Thos., & Sons, Ltd. (Printing) ..	28
New Era Treatment Co., Ltd. (Elasto) ..	1	Roché Products, Ltd. (Citro-Thiocol, &c.)	7	Whiffen & Sons, Ltd. (Bromides, &c.) ..	v
Newball & Mason, Ltd. (Masona "Nightcap" Drink)	xv	Ronaldson, J., & Co. (Senna).....	Leader Page	Wilcox, Jozeau & Co. (Foreign Proprietaries)	Leader Page
Norma Technical Products, Ltd. (Telesrazor)	13	Rose, J. L., Ltd. (Pyrogallie Acid, &c.) ..	vii	Wood Bros. Glass Co., Ltd. (Glassware)	8
Nuro (Biggleswade), Ltd. (Nuro Film) ..	i	Rudduck & Co. (Shopfittings)	23, Col. Supp.	Woolley, J., Sons & Co., Ltd. ("Acrosone" Antiseptic)	ix
Orel-Micro Electric, Ltd. (Portable Turntable)	17	Schering, Ltd. (Camphor, Pure, B.P.)... 6		Wright, John, & Co., Ltd. (Gas Radiators, &c.)	30
Orridge & Co. (Valuers, &c.)	Col. Supp.	Scholl Manfg. Co., Ltd. (Window Display Contest)	19	Yvonne, W. J., et Cie., Ltd. (Toilet Preparations)	26
		Scurr, C. A. (Optical Tuition)	26	Zimmermann, A. & M. (Chemicals) ..	iv
		Sherley, A. F., & Co., Ltd. (Veterinary Preparations)	xv		
		Singha, Dr., Co., Ltd. (Asthma Remedy) ..	26		
		Smith, Martin H., Co. (Ergoapiol)	xiv		



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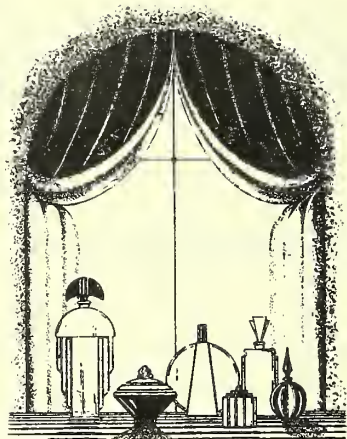
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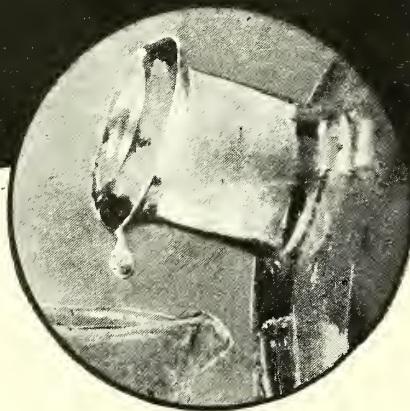
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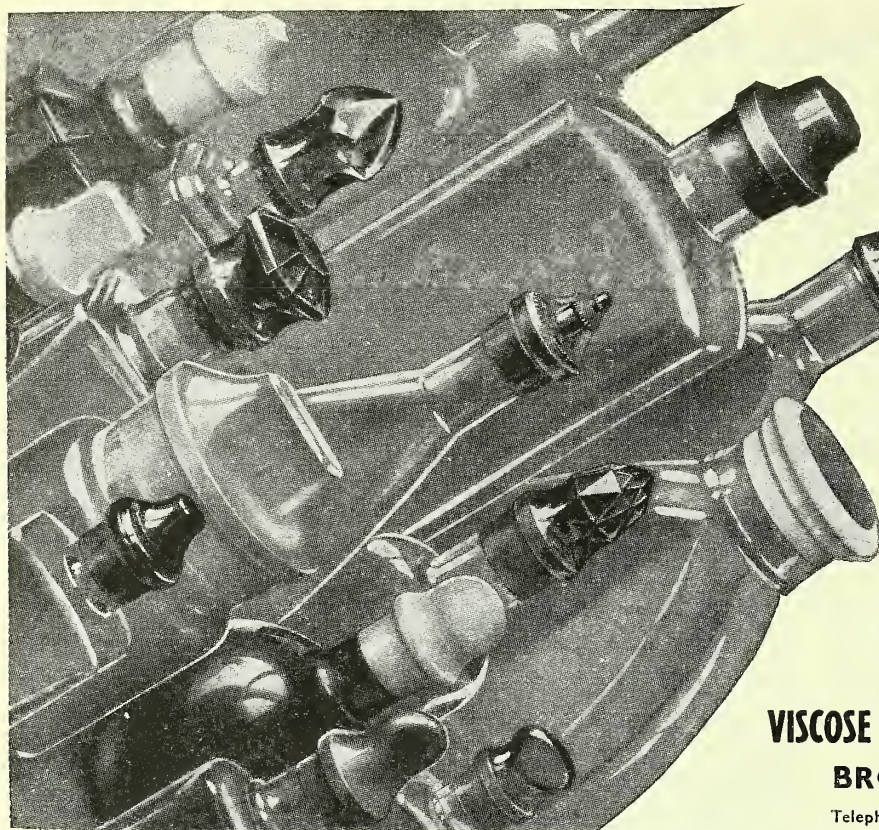


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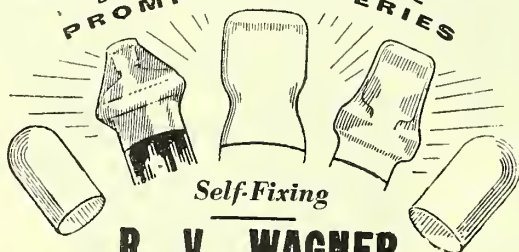
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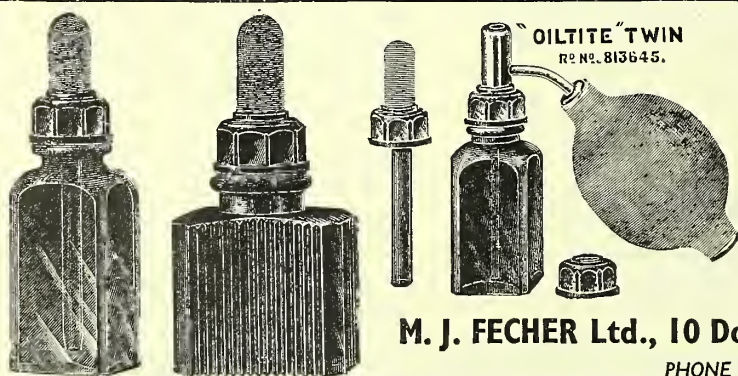
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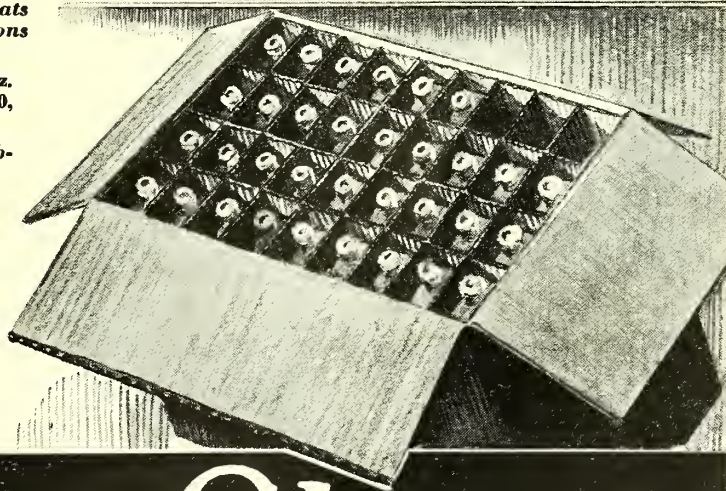
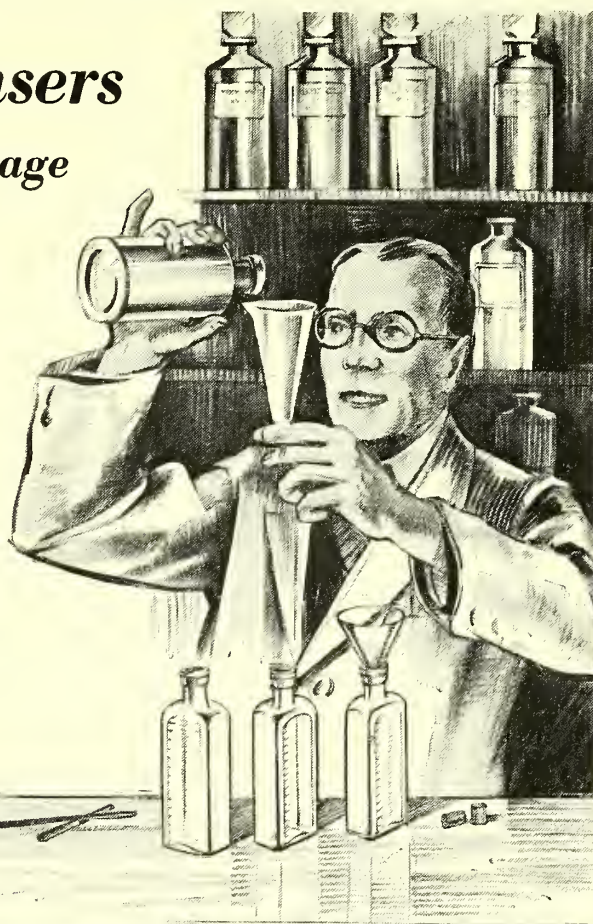
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Telegram: NORMACO, AVENUE, LONDON.

Telephones NATIONAL 8838-7467

The NEW Automatic-Electric TELERAZOR

BRITISH MADE

Great **AMAMI** **BONUS** **OFFER**

to celebrate the introduction
of their new **EXTRA** size
LIQUID SOAPLESS SHAMPOO

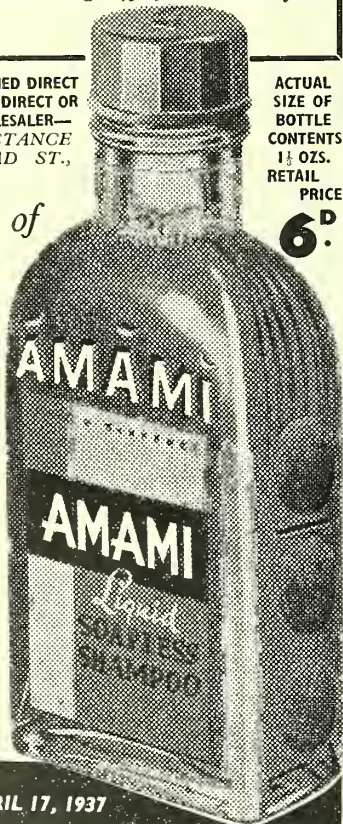
A REAL MONEY-MAKING OPPORTUNITY!

This offer remains open until April 1937. Make up your order to your own assortment as required in 6d. and 3d. Powder Shampoos and 6d. Liquid Shampoos (Soapless and Pine Tar) including at least half a dozen 6d. bottles of the new Amami Liquid Soapless Shampoo. For every dozen of each shampoo ordered we will include two extra shampoos entirely FREE. The minimum parcel of £1.11.6 is subject to our usual terms of 10% discount thirty days. Therefore taking advantage of this **BONUS** parcel costing £1.8.4 and selling at £2.9.0 will show you a **profit of £1.0.8.**

ALL BONUS PARCELS DESPATCHED DIRECT TO YOU, AND MAY BE INVOICED DIRECT OR THROUGH YOUR USUAL WHOLESALE—**PRICHARD & CONSTANCE (Mfg.) LTD., 11, BROAD ST., LONDON, W.C.2.**

*Selling Points of
this NEW
SHAMPOO*

- Consistent, extensive advertising in the National Press and Women's Papers will ensure a heavy demand.
- Has the primary advantage of being prepared by the leaders of the shampoo trade.
- Packed in very attractive counter display cartons to hold half a dozen.
- Can be used on the most delicate scalp—with absolute safety and definite health benefits.
- Amami Liquid Soapless Shampoo is non-alkaline, non-injurious, has tremendous cleansing properties, lathers freely and quickly.



ACTUAL
SIZE OF
BOTTLE
CONTENTS
1½ OZS.
RETAIL
PRICE
6^p

CLOSING DATE APRIL 17, 1937

ORDER TO-DAY!



The remarkable popularity of LIMACOL in the West Indies has prompted us to market it in this Country. With its base of West Indian Limes, it is a natural restorative and an effective astringent for toning up the complexion and softening the skin. Perfect as a spray after shaving. ☐ Advertising appearing in National Women's Press starting May.

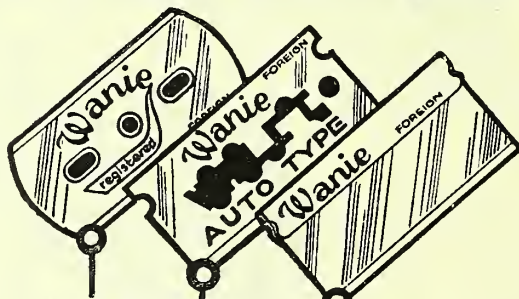
Obtainable through your usual wholesaler.

20/- per doz. **Retails 2/6** per bottle

Approximately 8 oz. bottle.

Trade Enquiries to:
BOOKER JAY & CO., LTD.
Humber Laboratories, Humber Road, London, N.W.2

WANIE The Profit Raiser Blades



A range of Razor Blades that
consistently raise your profits.

**8^p PER
GROSS**

**9^p PER
100**

Free samples await your request.
Wholesalers are invited to write for Trade Terms.

3/9 PER GROSS **TIM**

LONDON & PROVINCIAL FACTORS Ltd.
146 Theobalds Road, London, W.C.1
and at 16 Withy Grove, Manchester.



NOW!

2 new shades

IN

COTY

"AIR SPUN" FACE POWDER



Series 6012

"MIBLONDE"

FOR THE BLONDE

"BRUNAT"

FOR THE BRUNETTE

These two flattering new shades—developments of the highly successful "GITANE"—are sure to achieve instant popularity. National and provincial advertising of these two new shades

is now starting. In addition, a whole page "Daily Mail" advertisement in two colours will announce the news to millions of readers on May 13. The demand is certain to be considerable. Be sure you capitalise this great Coty event. This practical new Counter Stand holds 12 boxes of "Air Spun" Face Powder (2/3 size). Place one on your counter now. When ordering quote No. 6012.

Order now!

Curly-Locks and the CHEMIST

Not a Fairy Story



Once upon a time there was a chemist who pondered over the big demand he was getting for Curly Top, the natural hair curling preparation for babies, and Vosemar, the natural hair waver for grown-ups. Then a mother told him about the wonderful results she was getting from both these lines and now he puts the big sales down to these reasons—

- (1) Curly Top and Vosemar do all that is claimed for them.
- (2) Popular prices, Curly Top 1/3 per tube, Vosemar 1/6 per tube.
- (3) Consistent and sound National advertising in over forty publications.
- (4) Attractive boxes and displays.

Now this chemist displays the lines regularly and sales go up and up.

MORAL.—Put the attractive one dozen display outers on your counter and they will practically sell themselves. Good discounts. Ask your wholesaler.

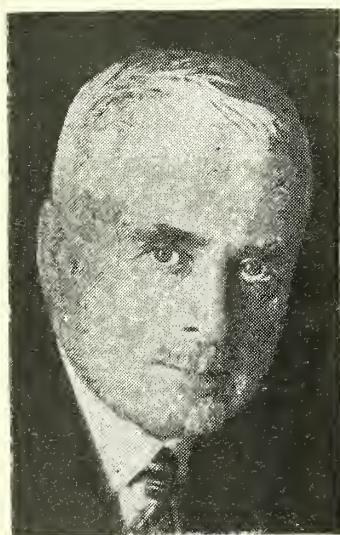


Curly Top
and
Vosemar

THE VOSEMAR CO.
11 Parson's Lane,
BURY, LANCs.



EXPORT The Vosemar Co. are developing their Export Department and would be interested to hear from reliable firms who are open to consider acting as distributors for their lines in CANADA, INDIA, IRISH FREE STATE, the CONTINENT, etc.



WILFRID HILL, Managing Director,
The County Perfumery Company

Wilfrid Hill says

TRADE MESSAGE No. 7

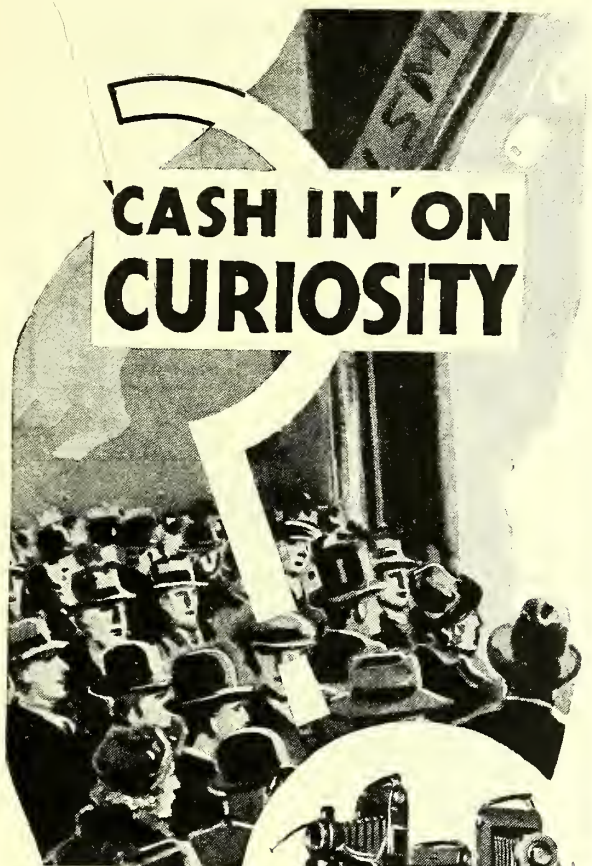
It would take you TEN YEARS to WALK the distance covered by BRYLCREEM Advertisements

If all the two hundred and ninety-eight million, nine hundred and fifty-six thousand, four hundred and five BRYLCREEM Advertisements appearing this year were made into a continuous single newspaper column, they would reach 160,000 miles. A ten years' "hike"! This is going to pep up business and punch up profits for you! So cut yourself a large slice of this quick, money-making trade by giving BRYLCREEM a good window and shelf display. Let us send some of our attractive, sales-persuasive show-cards. Remember, the more you display BRYLCREEM, the more you sell. And the more you sell, the more money you make. We're creating the demand for BRYLCREEM. Be sure your stock can always meet it.

That is why

BRYLCREEM
dominates the market

CASH IN 'ON CURIOSITY



**WITH THE
ONLY
PORTABLE
ELECTRIC
TURNTABLE
IN THE WORLD**

No Wires—No Plugs—No Mains

An Orel-Simplex Turntable provides a revolving base—invisible if desired—for featuring goods up to 5 lbs. in weight on trays up to 36 ins. diameter. Operated by any standard flash-lamp battery at a power cost of 3d., each battery lasts up to eight weeks running day and night if required. Diameter 4 ins. Height 2½ ins. Price 30s. Put this modern magic in your window or on your counter—and watch results! A definite sales-stimulus for the holiday season.



TO NATIONAL ADVERTISERS
The Orel-Simplex can be fitted inside dummy packs with attention-compelling results.

Write for illustrated folder.

Orel-Micro Electric Ltd., 39/41 Berners St., London, W.1. Phone: MUSeum 0032 (2 lines)

**OREL-SIMPLEX
ELECTRIC
TURNTABLE**

NOTICE

STOLEN GOODS

Michel

LIPSTICK

The Police have reason to believe that a quantity of MICHEL LIPSTICKS, the proceeds of a robbery, might be offered to the trade.

Each Lipstick case and outer cartons (containing one dozen) are stamped for Export as follows:

**MICHEL COSMETICS (LONDON) LTD.
MADE IN GREAT BRITAIN**

The goods are mostly Raspberry, Vivid and Scarlet Shades

Any information leading to the tracing of the stolen Merchandise, marked "Made in Great Britain," should be given at the nearest Police Station or to:

CALMON & NEATE LTD.

(British Distributors)

8 GERRARD ST., LONDON, W.1

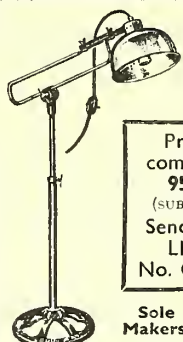
• • • • •

AT PRESENT ALL

MICHEL

FOR THE ENGLISH MARKET
IS STAMPED

**MICHEL COSMETICS, INC.,
MADE IN U.S.A.**



"DUO-RAY" INFRA-RED RAY APPARATUS

This apparatus, which is quite harmless, is of paramount importance for the treatment of Rheumatism, Lumbago, Neuritis, Sciatica, Metatarsalgia and every condition of pain.

The apparatus has been supplied by us to:

LONDON HOSPITAL
KING'S COLLEGE HOSPITAL
GUY'S HOSPITAL
ST. MARY'S HOSPITAL
ROYAL FREE HOSPITAL

ROYAL VICTORIA HOSPITAL
B.R.C.S. CLINICS
ADMIRALTY
WAR OFFICE
CROWN AGENTS, &c.

THOUSANDS IN DAILY USE.
OF INFRA-RED RADIATION APPARATUS YET DEvised.
MORE OF THIS MODEL IN USE THAN ANY OTHER.

THE MOST POPULAR TYPE
OF INFRA-RED RADIATION APPARATUS YET DEvised.
USE THAN ANY OTHER.

PRICE CAUTION

Absurdly high prices are being demanded by some makers for Infra-Red Ray Apparatus. Please note the standard price of the "Duo-Ray" Apparatus is only 95/6, you should not pay more.

Price complete
95/6
(SUBJECT)
Send for
LIST
No. C. 106

VALUABLE DRUGGIST SIDE LINE—WHOLESALE • RETAIL • EXPORT

Sole
Makers:

F. W. Read & Sons Ltd., 175-9 Gray's Inn Rd., London, W.C.1

(F. W. READ, A.M.I.E.E., GOVERNING DIRECTOR)

Actual Manufacturers of all types of Electro-Medical Apparatus

Telegrams: Read, Terminus 4074, London

"HERNICURA" TRUSSES

(REGISTERED NO. 254807)

AND SURGICAL APPLIANCES

WE ARE SOLE PROPRIETORS

(Infringers will be prosecuted)

WILL BUILD UP YOUR TRUSS TRADE

DISTRICT SOLE RIGHTS GIVEN

Send for Illustrated Wholesale Price List

JEFFERSON & SON

"HERNICURA" TRUSS AND SURGICAL APPLIANCE SERVICE

ETON RD., WOOLWICH, LONDON S.E.18 PHONE: WOOLWICH 0607



FROM YOUR
WHOLESALE
HOUSE

GARDINERS for OVERALLS



Reliable materials
well tailored

Long Coats (as illustrated)

White Drill 7/6, 12/6
Khaki 5/11, 9/6 Grey 7/6, 11/6
Black 14/6

Short Jackets

White Drill 4/6, 7/11
Grey 6/11 Black Poplin 12/6

Ladies' Long White Coats

With belt 7/11, 10/6
"Crossover" style 5/11, 7/11

Mail Orders: state chest measure

We have a fine range of Aprons in White Drill, Green Baize, Black and Yellow Oilskin, Acid-proof Black Rubber, also Clogs, Rubber Boots, Acid-proof Clothing, etc.

Write or phone Bishopsgate 6751 for illustrated Price List

GARDINER & CO., (THE SCOTCH HOUSE) LTD.,
1, 3 & 5, COMMERCIAL RD., LONDON, E.1
PHONE: BISHOPSGATE 6751

THE

"MATER" CLINICAL REGD.

The position of the Mercury column is at once perfectly plain. Red markings above 99.4.

ALL TYPES OF CLINICAL AND OTHER THERMOMETERS

**PERKEN, SON
& CO. LTD.**

(ESTABLISHED 1852)

Price List on Application:—

94 HATTON GARDEN,
LONDON, E.C.1

Telephone: 0724 Holborn

Telegrams: "Optimus, Smith, London."



**Here's News—and an opportunity for
every Chemist and Druggist**

SCHOLL

Offer £100 ADDITIONAL PRIZES

in the *Daily Mail* "Show & Sell" contest for Window Displays

Enter for
the Double
Prize

£50 First Prize
£25 Second Prize
Plus 5 Consolation Prizes of £5

BE SURE to make a central Window Display of Dr. Scholl's Foot Comfort Products—call upon our resources with respect to Display Material—we are ready to co-operate with you.

Install a Dr. Scholl Window Display—eye arresting packs—and colourful display will achieve an outstanding window alone—a little thought and ingenuity will assist you to reap a rich harvest.

Apart from the Window Display interest, remember that great combined forces are working to add to your sales volume—thus.

- (1) Constant Editorial Publicity on National Fitness.
- (2) Scholl's concentrated Mass Advertising Campaign.
- ➔ (3) Scholl's Full Page "*Daily Mail*" Advertisement is coincident with the contest.
- (4) The £2,000,000 National Physical Fitness Campaign.

Now plan **your** Window—see that the central display concerns profitable Dr. Scholl's Aids or Remedies for Foot Comfort.

**REMEMBER
THE DATE—
APRIL 5th
to MAY 15th**

The Scholl Mfg. Co., Ltd.
182-194 St. John Street
LONDON, E.C.1

Dog owners are asking for these

Every year the Bob Martin Laboratory Service receives thousands of letters from dog-owners, describing their dogs' complaints and asking for advice. With so large a volume of correspondence we are able to keep in close touch with dog-owners in every part of the country and as a result, we know from first-hand evidence what disorders are prevalent and what remedies are needed.

Our Laboratory Service has supplied to an ever increasing extent, special prescriptions for many ailments. The demand for these remedies has now increased so much that we have decided to place those which are most popular on the market as *nine new lines*. We know that these preparations are in ready demand and that they will quickly become 'steady sellers.'

DON'T MISS THE SPECIAL OFFER in "The Lead" on April 12th.

The next issue of "The Lead" will be sent out on April 12th. Don't miss this number—it contains details of a special parcel offer of interest to every chemist. Make a note of the date—April 12th—and look out for "The Lead."

GIVE THIS NEW BOOK TO YOUR CUSTOMERS

A new type of dog book is now in the hands of our printers. Supplies will soon be ready and copies will be enclosed with every order. This new book will sell every line in the Bob Martin range to your customers—build up your veterinary trade—increase your goodwill.

We will gladly send copies to retailers on receipt of a post-card.



Bob Martin Ltd

SOUTHPORT ENGLAND

nine new lines



Retail price
1/3 each
Trade price
11/3 per doz.

STOMACH POWDER.

For the treatment of all gastric troubles such as gastritis, indigestion, flatulence, bad breath, and acidity. Made to a new formula employing no bismuth, magnesia, chalk, or bicarbonate of soda.



Retail price
1/3 each
Trade price
11/3 per doz.

FOOT POWDER.

The first specific treatment for interdigital cysts; makes a safe antiseptic and healing solution for the external treatment of other foot troubles such as sore or cut pads, and blistered feet.



Retail price
6d. each
Trade price
4/6 per doz.
on hanging cards

WORM CAPSULES.

Produced for those who prefer this form of worm medicine, these capsules are the safest and most reliable worm preparation on the market. Made in two strengths, large and small.



Retail price
1/3 each
Trade price
11/3 per doz.

CANKER POWDER.

For the treatment and cure of wet canker. An antiseptic powder which quickly soothes the irritation and heals any sores or ulcers that may have formed on the ear flap.



Retail price
1/3 each
Trade price
11/3 per doz.

CANKER LOTION.

For the treatment and cure of dry canker. An antiseptic lotion which penetrates to the seat of the trouble and quickly soothes and heals.



Retail price
1/3 each
Trade price
11/3 per doz.

EYE DROPS.

A safe and reliable treatment for sore, inflamed or discharging eyes, ophthalmia, conjunctivitis and cold in the eye. Particularly valuable in cases of distemper.



Retail price
6d. each
Trade price
4/6 per doz.

DIARRHOEA POWDERS.

Quickly check diarrhoea and within a few hours bring the motions back to normal. Invaluable for weak or delicate cats and dogs, and have no unpleasant costive effect when the diarrhoea is cured.



Retail price
6d. each
Trade price
4/6 per doz.
on hanging cards

APERIENT POWDERS.

Containing no dangerous drug or griping element, these powders end even long-standing constipation without causing discomfort or producing any after effects.

Retail price 6d. each
Trade price 4/6 per doz.

"PESTROY"

The most powerful insecticide on the market. Ideal for ridding dogs, cats and other pets of vermin and for all household purposes.



COMPLETE RANGE OF BOB MARTIN PREPARATIONS

FOR INTERNAL TREATMENT

CONDITION POWDERS
DISTEMPER POWDERS
WORM POWDERS
WORM TABLETS
WORM CAPSULES
APERIENT POWDERS
STOMACH POWDER
DIARRHOEA POWDERS
FIT & HYSTERIA TABLETS

FOR EXTERNAL TREATMENT

'92 OINTMENT
FOOT POWDER
EYE DROPS
CANKER POWDER
CANKER LOTION
"ANTIMATE"

FOOD—for Dogs and Cats
MARTINMILK

CLEANING PREPARATIONS

"CLEANSFUR" POWDER
CHALK BLOCK
DOG SOAP
LIQUID SHAMPOO
"BLOOM" SHAMPOO
ANTISEPTIC FLUID
"PESTROY" (INSECT POWDER)

FOR CATS

CAT POWDERS

Cataline prevents and cures inflammatory Diseases in Cattle

TO THE TRADE

P.A.T.A. PRICES!

Are **you** stocking

CATALINE?

If not, now is the time to send us your orders.

During this month we are posting 200,000 circulars to 200,000 Farmers and all Live Stock Owners.

Many of these are your customers.

They will be asking **YOU** for **CATALINE**

Cataline pleases Your Customers.

IS

The Sales will Please You.

WHAT **CATALINE** YOU

WANT

One Size. One Price. Retailed at Face Value, namely 3/9 per bott.

Cases Free.

Carriage Paid.

Our best cash with order, carriage paid, prices are:—

1 dozen	3 dozen	6 dozen	12 dozen
38/-	35/6 per doz.	35/- per doz.	34/6 per doz.

Stocked by most Wholesale Houses

Sole Makers:

THE CATALINE CO., LTD., BRISTOL

RENOVITA

as used by the Royal Veterinary College, London, many Veterinary Surgeons, and leading Trainers and Breeders.

**NUTRITIVE
ANTI-STERILITY
RACING Preparation
CANINE Preparation**
Obtainable through
Wholesaler or direct.

VITALITY VITAMIN LABS. LTD., Melton Mowbray

Write for Free 'Renovita' Booklet

Specialists in



This package contains
4 ozs Soap 'soluble in cold water'
and sufficient Derris Powder to make

1 GALLON OF DRESSING

WARM WATER NOT NECESSARY

**RETAIL
3/-**

**GENEROUS
TERMS TO
CHEMISTS**

**YOUR OWN PACK
IF PREFERRED**

We specialise in
all forms of

DERRIS

**BUGG'S
INSECTICIDES LTD.**

SITTINGBOURNE KENT

T.A.S.-Pg. 77

*English
Filter*

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Papers

SQUARES
CIRCLES
FOLDED
ROLLS

WHITE
GREY
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EMBOSS
CRINKLED

SAMPLES
FREE

Postlip Filterings are stocked by all the leading Wholesale Laboratory Dealers.



Evans, Adlard & Co Ltd

Postlip Mills, Winchcombe, Cheltenham.

Prentif

THE NAME BEHIND THE APPROVED
CONTRACEPTIVE PRODUCTS

"Prentif" Non-greasy Galatine Suppositories and the smaller "Prenols"—the approved chemical contraceptives for use with any mechanical appliance. Maximum spermicidal power, accurate melting point and many other improvements make these Suppositories the best obtainable. Very generous Trade Terms.



Particulars, Prices & Samples from:

PRENTIF LIMITED

Long's Court, St. Martin's St., London, W.C.2

Telephone: WHitehall 9270

SOLE AGENTS IN GREAT BRITAIN FOR HOLLAND-RANTOS CO. INC., NEW YORK, manufacturers of "Koromex" Products.

Supplied for retail sale only to Chemists and Druggists or Chemists' Wholesale Houses



RUDDUCK & CO.
219 & 227 OLD STREET, LONDON, E.C.1

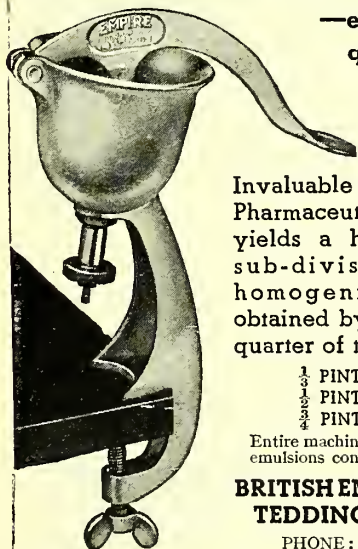
Here is a specimen interior designed by RUDDUCK. You can make an enormous display and keep everything clean and under cover. Few Shopfitters have behind them such long, uninterrupted experience in shopfitting construction as RUDDUCK. We are constantly making improvements that revolutionize the Chemists' Shop.

An estimate or plan places you under no obligation whatever, so write now

Telephone :
Clerkenwell 3782-3-4

THE EMPIRE EMULSIFYING MACHINE

—easily and
quickly cleaned



Invaluable for the making of Pharmaceutical Emulsions—yields a higher degree of sub-division and better homogenisation than is obtained by hand and in one quarter of the time.

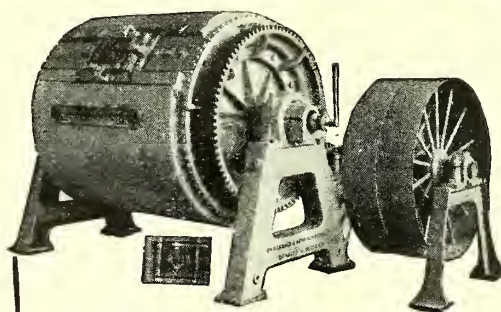
$\frac{1}{3}$ PINT SIZE.... 8/6
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Entire machine Chromium Plated (for emulsions containing ALKALI) 25/-

BRITISH EMULSIFIERS LTD.
TEDDINGTON, MIDDX.

PHONE: MOLESEY 1202/3

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For CHEMICALS, DRUGS, COSMETICS, PHARMACEUTICALS, etc. for grinding only or for mixing at the same time; for wet or dry materials; in special metals or porcelain or Silex rubber lined. Sizes to suit all output demands.

GARDNER

PEBBLE, POT, ROLL, EDGE or END RUNNER MILLS. PATENT "RAPID" GRINDER AND SIFTER, ETC.

Send sample of your material, we will advise and quote

WM. GARDNER & SONS (GLOUCESTER) LTD., BRISTOL RD., GLOUCESTER Telephone: 2288 Telegrams: "Gardner, Gloucester."
London: 19 Grays Inn Chambers, 20 High Holborn, W.C.1.
Telephone: Chancery 7347

EYETEX

REG. TRADE MARK

SUN GOGGLES



No. 308. "Salvatic" engraved Fitover Spectacles, supplied in cable or spring, 30, 40 and 42 mm. eye glazed with foreign Crookes Lenses.

No. 310. Do. do. Chance's do. Supplied complete in purses. Attractive Show-card supplied for display purposes. As illustrated.

ALL VARIETIES & PRICES

SUPPLIED CARDED AND PACKED IN CARTONS

OBTAINABLE FROM LEADING WHOLESALE HOUSES

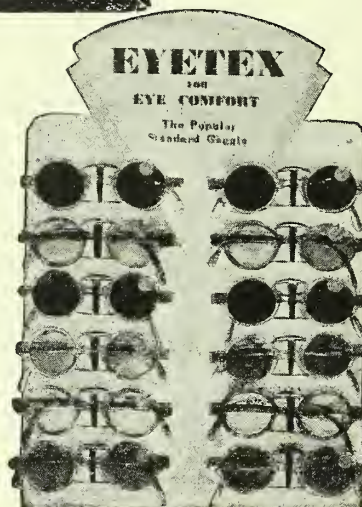
ILLUSTRATED PRICE LIST ON APPLICATION

WHOLESALE AND EXPORT TRADE ONLY

MERX OPTICAL COMPANY LTD.

NEW HOUSE - 67-8 HATTON GARDEN - LONDON, E.C.1

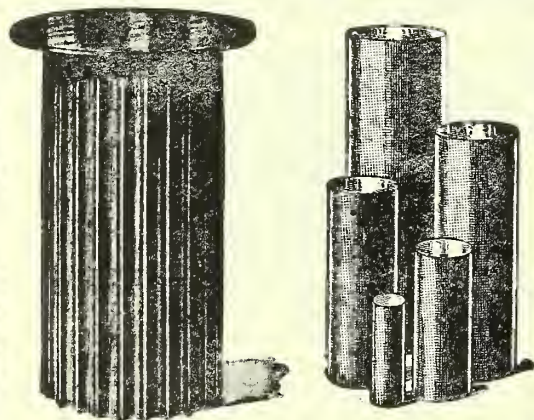
TELEPHONE: HOLBORN 7071



No. 3284. Beach Goggle for sun-bathing, assorted non-inflammable flesh, blue, pink, crystal, glazed Chance's Crookes coquille Lenses in all tints. Supplied in assorted measurements in 38 and 40 mm. eye.

No. 4267. Beach Goggle for sun-bathing, cheaper type with metal hinges in six assorted colours, 42 mm. eye, glazed foreign Crookes Lenses.

SEND FOR OUR NEW SPRING LIST of DISPLAY FITTINGS, No. CD 1742



No. CDF 5771 Very attractive Display Tables, constructed of compressed millboard and covered imitation Walnut Paper. The pillar has concave flutes and is extremely modern in appearance.

Each
9 ins. high with 10 in. top 4/6
15 ins. high with 10 in. top 5/-
24 ins. high with 12 in. top 6/9

No. CDF 5758 Useful and Attractive Set of Display Cylinders, covered heavy grained Gilt paper. Comprising

1—36 ins. high x 12 ins. wide
1—30 ins. high x 10 ins. wide
1—24 ins. high x 8 ins. wide
1—18 ins. high x 6 ins. wide
1—12 ins. high x 4 ins. wide
22/6 the set

DUDLEY & COMPANY, LTD.
451, HOLLOWAY ROAD, LONDON, N.7
City Showrooms—65 Fero Street, E.C.2

Nervous Visitors Passed Remarks



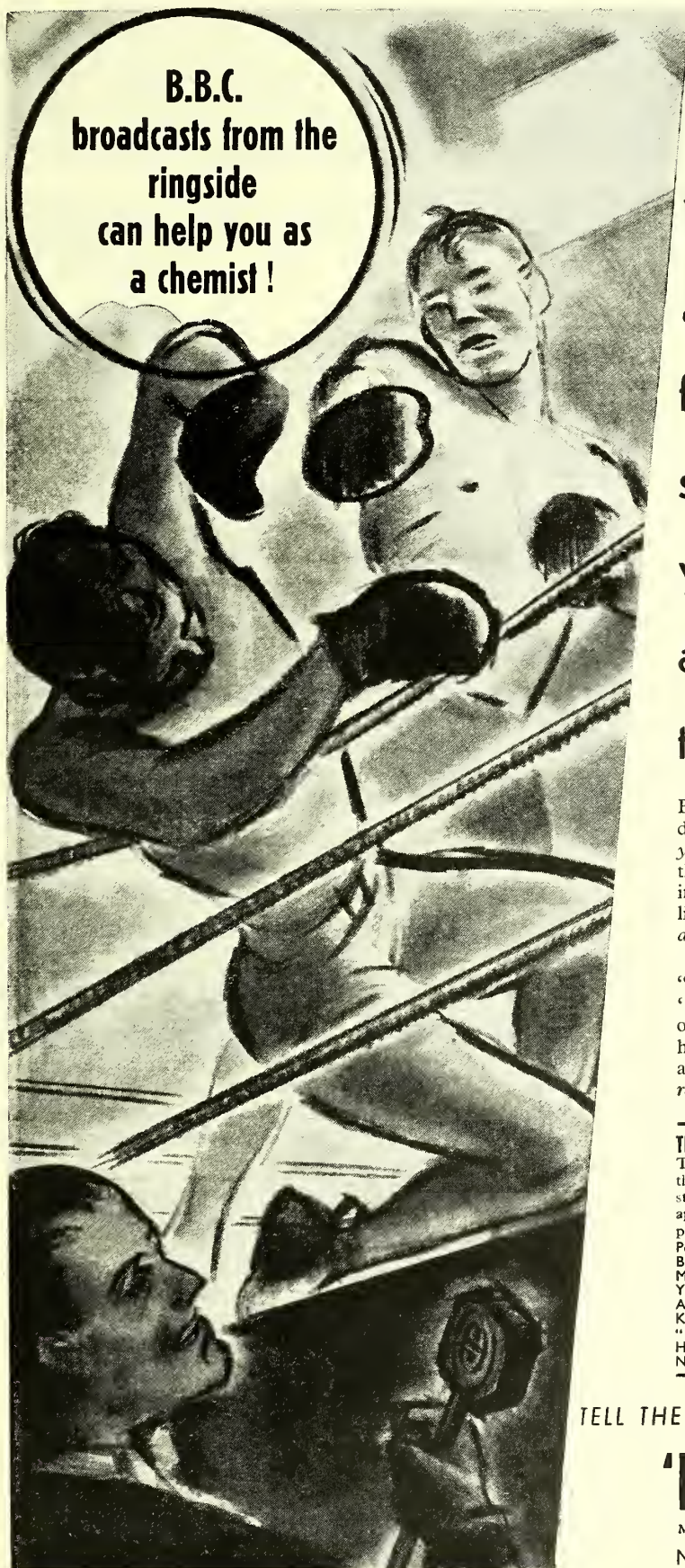
A customer writes:—"I was pestered with rats beneath the floor of my sitting room. Day and night the scuffling, squeaking and gnawing went on. Nervous visitor's passed remarks on the row, and we seemed to have no remedy. Traps and phosphorus paste were cunningly ignored. At last I got Rodine and from twelve hours after I followed the directions we have never heard a sound."

RODINE RED SQUILL —The safe raticide for use in the home. Harmless to human beings, pets and domestic animals.
7½d. and 1s. 3d. Retail Prices (Both kinds).

Manufactured by Thomas Harley Ltd., Rodine Works, Perth, Scotland.

RODINE

KILLS RATS & MICE



You, as a retailer,
are not getting
full advertising
support unless
your lines are
advertised in
the 'RADIO TIMES'

B.B.C. programmes . . . comedians . . . dance bands . . . these can be selling for you. 2,800,000 families turn the pages of the 'Radio Times' during the week, looking up these items. And they see certain lines advertised. *But are they the lines you are stocking?*

Next time the traveller calls, ask him "Is your line advertised regularly in the 'Radio Times'?" If it isn't, then he's not offering the most powerful co-operation his firm can give you. Make a point of asking the traveller "Is your line advertised regularly in the 'Radio Times'?"

THE 'RADIO TIMES' LIST FOR YOUR TRADE

The following products are regularly advertised in the 'Radio Times' and are therefore assured of a steady demand. The second half of this list will appear in the next 'Radio Times' advertisement published in this journal.

Poudre Tokalon
Beechams Powders, Etc.
Mistol Rub & Drops
Yardley Powder
Allenburys Diet
Kolynos Dental Cream,
"Vaseline" Hair Tonic
Horlick's
Nostroline

Phensic
Feen-a-mint
Drene Shampoo
Pond's Cold Cream
Vinolia Soap
Veno's Cough Cure
Silvikrin
Yardley Lavender Water
Harlene

TELL THE TRAVELLERS YOU WANT THE

'RADIO TIMES'

MEMBERS OF THE AUDIT BUREAU OF CIRCULATIONS

NET SALES 2,800,000 WEEKLY

Glass Bottles for TOILET & PERFUMERY

Distinctive Bottles
Promote Sales

Pendred & Heim, 40 Trinity Sq., E.C.3

TELEPHONE: ROYAL 3659-4042

HALIBUT LIVER OIL

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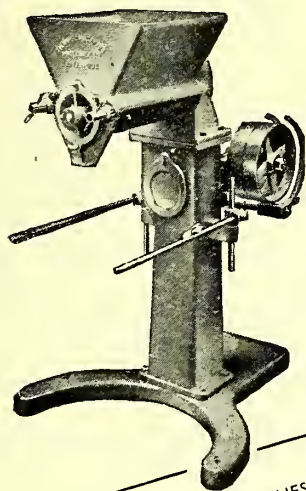
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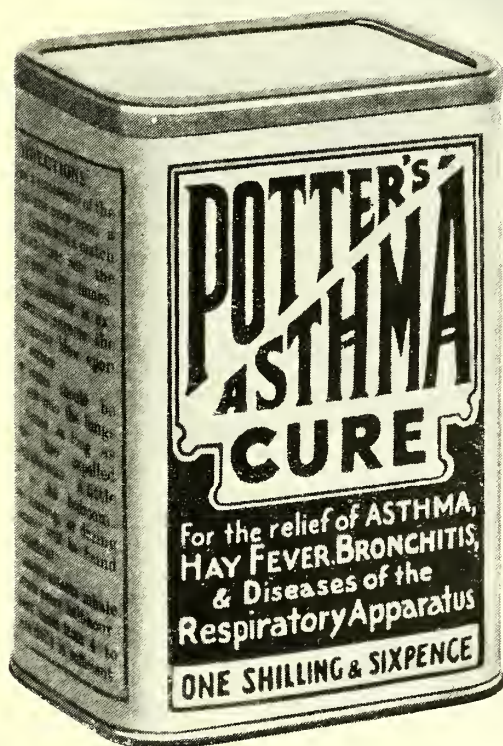
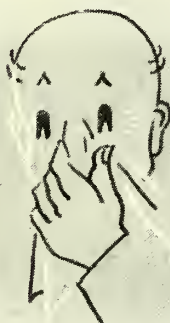
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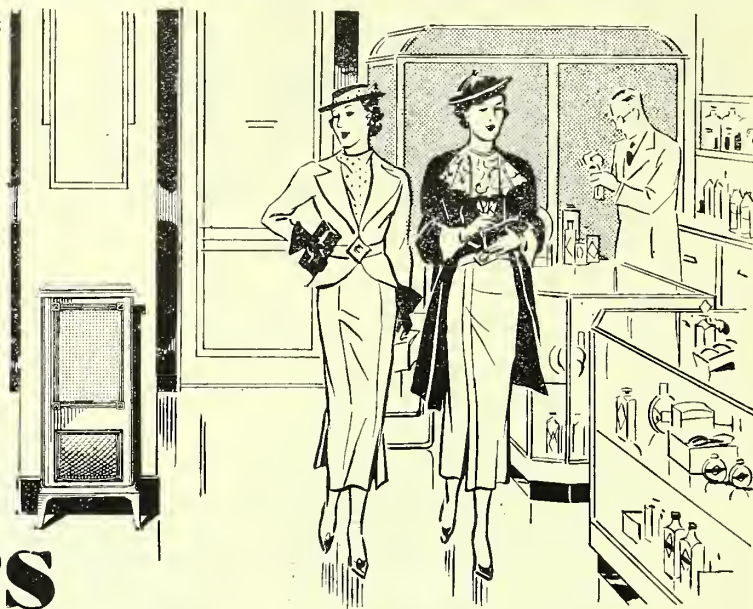
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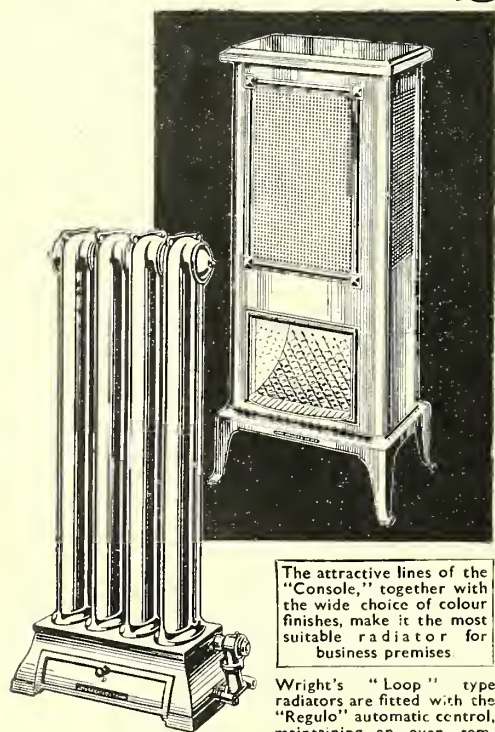
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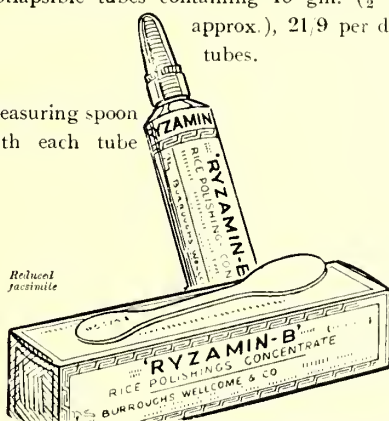
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CONTENTS

VOL. 126. NO. 2982

APRIL 3, 1937

PAGE	PAGE	PAGE	PAGE
American Trade Notes ... 409	Company News 391	EQUIPPING THE DISPENSARY 404	Personalities 397
Antiseptics Compared 395	Deaths 397	Information Department 398	Recent Wills 397
Business Changes 390	Editorial Articles:—	Irish Notes 389	Retrospect 412
CHANGING IDEAS ON DISPENSARIES 401	“Black Coats” Recognised 399	Items in Parliament 393	Science Papers at Edinburgh 392
Coming Events 397	Modern Dispensing Departments 399	Legal Reports 390	Scottish Notes 388
Commercial Notes 409	Tartaric Products Advance 400	Marriages 397	Topical Reflections 389
Correspondence:—	At Brewster Sessions... 400	MODERN DISPENSARY ... 403	Trade Marks 396
Letters 410	Organic Thermochemistry 400	National Pharmaceutical Union 394	Trade Notes 396
Dispensing Notes 411		News of the Week 385	Trade Report 406
Miscellaneous Inquiries 412			
Subscribers' Symposium 410			

News of the Week

Select Committee's Report on Medicine Stamp Duties

During the Easter vacation, Captain G. S. Elliston, senior member of Parliament for Blackburn, received a deputation from the North-East Lancashire Branch of the Pharmaceutical Society to discuss the report of the Select Committee on Medicine Stamp Duties. Captain Elliston afterwards spent a few hours with the Blackburn Medical Society.

A deputation representing the Bury (Lancs) Chemists' Association is to meet Mr. Alan Chorlton, the member for the borough, on a date in April, for the purpose of stating the objection which chemists have to the terms of the report of the Select Committee.

Passages from a letter protesting against the scale of stamp duties proposed by the Select Committee have appeared in "The Morning Post" and "The Manchester Guardian." The author is Mr. J. S. Walmsley, secretary to the Bolton Branch of the National Pharmaceutical Union.

A business meeting of proprietor chemists of the North Metropolitan Branch of the Pharmaceutical Society was held on March 30 to consider the medicine-stamp duties report. It was resolved that a notification should be made to the Commissioner of Customs and Excise and a protest sent to the Chancellor of the Exchequer against the hastily and ill-considered report, with an appeal not to decide upon the issue until a more adequate inquiry had been made. A plan of action was approved, and the policy was adopted that every member of the branch should notify his member of Parliament.

In the House of Commons, on March 25, Mr. Hannah asked the Chancellor of the Exchequer whether he is aware that the comprehensive taxes on medicine proposed by the Select Committee on Medicine Stamp Duties would affect the poorer

classes of the community while hardly touching the rich, and that the smaller chemists are objecting; and whether he will give due weight to these considerations before he reaches a decision as to the adoption of the recommended duties? Lieut.-Colonel Colville: I would assure my hon. Friend that due weight will be given to all relevant considerations before my right hon. Friend reaches a decision on the Committee's report. Mr. Duncan: Will my right hon. and gallant Friend be prepared to receive representations from the Pharmaceutical Society on this matter? Lieut.-Colonel Colville: I think that representations have already been received.

Proprietary Articles Trade Association

We have been advised of the following alterations in the Protected List of the Proprietary Articles Trade Association, 43 Gordon Square, London, W.C.1. (The retail and wholesale prices quoted are the minimum selling prices fixed by the manufacturers and protected by the P.A.T.A.):—Roberts & Co.—Glycolactophos, 2s. 6d.; 22s. 6d. dozen, 4s. 6d.; 40s. 6d. dozen, 8s. 6d.; 76s. 6d. dozen, 16s. 6d.; 148s. 6d. dozen.

Ideal Home Exhibition

With the coming of age of the Ideal Home Exhibition occurring in Coronation year its promoters (the "Daily Mail") might be expected to stage a more than usually spectacular show at Olympia, London, S.W.14. They have done so. A "Golden Hall of Homage" is dominated by a 15-ft. statue of King George VI by Sir William Reid Dick, K.C.V.O. This stands under an octagonal canopy rising some 40 ft. above the top of the main staircase. Flanking the statue are gigantic friezes of "Empire peoples, from the Red Indian and his squaw

of Canada and mighty chieftains of native tribes to the Hong Kong coolie and the humblest subjects of India." The topical note is echoed in "Rooms of British Monarchs," "Crypt of Glamis Castle" and, less directly, by the "Navy at Home." Special features are both many and varied, and include the "Gardens of the Lovers," "Backgrounds for Beauty," "Kitchens of the Nations" and the "Bridge of R.M.S. 'Queen Mary.'" Not the least important section is the Scottish, which houses a comprehensive exhibit: "The Not-so-humble Herring," in addition to displays dealing with many of Scotland's industries. Exhibitors in the Beauty Section include PAPIER POUDRÉ, LTD. (a new perfume "Modeste"; a Coronation souvenir box of products; papier poudré, etc.); SCHÖLL MANUFACTURING CO., LTD. (foot comfort appliances); ADELAIDE GREY, LTD. (Laleek beauty preparations); GILLETTE INDUSTRIES, LTD. (razor blades); the stand included a blade-wrapping machine in operation); KOLYNOS (SALES), LTD. (tooth paste); BOOTS PURE DRUG CO., LTD. (beauty preparations); MACLEANS, LTD. (toilet preparations); E. N. BROMAGE & Co. (perfumes); POTIER & MOORE, LTD. (perfumes, including the Coronation pack of lavender water); RENE COS, LTD. (Veloshave); JUNE HAIR WATER WEAVER & CURLER CO. Among exhibitors in other sections were LEVER BROS, LTD. (Lux); BRITISH EMULSIFIERS, LTD (cream making machines); IDRIS, LTD. (beverages); VIROL, LTD. (foods); PHILIPS YEAST PRODUCTS, LTD. (Betox); CADBURY BROS., LTD. (cocoa); VITAMINS, LTD. (Bemax); BOVRIL, LTD. (foods); FASSETT & JOHNSON, LTD. (Welch's grape juice); A. J. CALEY & SON, LTD. (confectionery); DUNLOP RUBBER CO., LTD. (cushions); A. F. SHERLEY & Co., LTD. (animal medicines and foods); DISTILLERS' Co., LTD. (dioramas illustrating whisky distillation); OREL-MICRO ELECTRIC, LTD. (turntables and clocks); RADIATION, LTD. (gas appliances); ROZALEX, LTD. (preparations for the hands); SOZOL, LTD. (egg preservative); JOHN TYE & SON, LTD. (carpet shampoo); VITA PRODUCTS, LTD. (grape juice); FOX PHOTOS, LTD. (commercial photography). The exhibition remains open until April 24.

Inquests

At Southend-on-Sea, recently, an inquest was held on the body of Mrs. Lily Hartley, who died after an overdose of camphor, apparently eaten in solid form. A medical witness stated that $\frac{1}{2}$ oz. was a fatal dose, and that such cases were very rare.

An inquiry was held at Burnley, on March 29, concerning the death of Mr. Norman H. Hopkinson, a chemists' assistant, who died from hæmorrhage after being accidentally shot by his wife. It was stated that Mr. and Mrs. Hopkinson had been shooting for ten years. A verdict in accordance with the evidence was recorded.

Sessional Events

Members of the Enfield and District Chemists' Association numbering thirty-two visited the factory and farm of A. Wander, Ltd., King's Langley, on March 17. The model farm with herd of Jersey cows and the chicken farm with 63,000 chickens were inspected. The party was entertained to tea. Mr. G. R. Cross briefly thanked the directors and staff on behalf of the Association.

The Bath Pharmacy Students' Club has been formed for the benefit of pharmaceutical employees, to whom the amenities of the local branch are not available, with the object of affording opportunities for technical and educational discussion. Social and sporting events will be held. The club will have no officials from the senior club. The president is Mr. W. W. Heseltine, the treasurer Mr. R. Simpson, and the secretary Mr. B. Olive, c/o The Municipal Technical College.

Mr. W. W. Atkinson (a member of the Executive) addressed members of the Torquay and District Branch of the National Pharmaceutical Union on March 10 on "Current Pharmaceutical Topics." Afterwards a lively discussion took place on the C.F. scheme, and the report of the Select Committee on Medicine Stamp Duties. It was resolved, on the motion of Mr. Baker, that members should solicit the support of local parliamentary representatives for modifications in the Committee's recommendations.

A meeting of the Rhyl and District Branch of the Pharmaceutical Society was held on March 18 at the Westminster Hotel, Rhyl. After tea the chair was taken by the president

(Mr. C. R. Dixon, Abergele), who expressed his gratification at seeing such a good number present. The speaker was Mr. L. Moreton Parry (a past-president of the Pharmaceutical Society and a member of Council), who dealt with the Poisons Rules and the labelling of poisons. Questions were answered by Mr. Parry. The meeting concluded with a vote of thanks proposed by Mr. Garner (Rhyl).

A meeting of the Waterloo, Seaforth and Crosby Pharmacists' Association was held on March 15, Mr. J. Allen Jones in the chair. Uniform hours of opening during the Easter holidays, on Whit Monday and on Coronation day were agreed to. The report of the Select Committee on Medicine Stamp Duties was discussed, and it was resolved to give power to the committee of the Association to take any action it thought desirable. A social committee was elected. To meet the situation that will obtain after May 1, when the Shops (Sunday Trading Restriction) Act comes into force, a sub-committee appointed to arrange a rota presented this to the meeting. The meeting, by a majority, decided in favour of complete closing on Sundays after April, and the Secretary was instructed to inform the Lancashire Insurance Committee of this decision.

A meeting of the West Middlesex Chemists' Association was held at Edens' Restaurant, Ealing, recently, the president (Mr. F. H. Mylroi) in the chair. Mr. Frank Browne was elected *Treasurer* in succession to Mr. J. Elsworth Alcock. The secretary was directed to write a letter to Mr. Alcock conveying the Association's thanks for his work for so many years as treasurer, and wishing him many happy years in his retirement. Mr. F. R. Bateson was elected *Auditor*. The president then introduced Mr. Whatmough (S. Maw, Son & Sons, Ltd.), who gave an address on "Surgical Dressings." Mr. Whatmough dealt with cotton-wool, lints, gauzes, and bandages, the various stages in their manufacture, and the difficulties encountered to attain the necessary standards. Mr. Whatmough answered many questions. A vote of thanks was proposed by Mr. F. G. Wells.

The Huddersfield Chemists' Association and Branch of the Pharmaceutical Society heard an address, recently, by Mr. E. Saville Peck on "The Pharmacist: the Man and His Work." To-day, he said, the pharmacist was a man holding a high qualification, and should therefore be an outstanding individual. The doctor enjoyed prestige whether he was a general practitioner or a specialist. The position of the pharmacist should be the same. An increasing number of the best students were entering works and laboratories, particularly since the 1933 Act and 1935 Rules. The present-day pharmacist must be able to discuss professional topics with doctors on an equal footing. We were gradually nearing the ideal position of diagnosis for the doctor and dispensing for the chemist. Several interesting questions were raised, and these the speaker answered. Mr. Broadbent proposed a vote of thanks.

Blackburn

Mr. R. Pickup presided over the annual meeting of North-East Lancashire Branch of the Pharmaceutical Society at the Chamber of Commerce Hall, Blackburn, on March 17. Mr. Fred Law (secretary) reported that last year's whist drive and ball earned £28 for Blackburn Royal Infirmary. This contribution entitled the Branch to nominate a life governor, and Mr. Joseph Isherwood was selected. Mr. Atherton was installed as *President* on the proposition of his predecessor. Mr. Emeric Eccles, Oswaldtwistle, was elected *Vice-Chairman*. Reference was made to the illness of Alderman W. H. Grimshaw (treasurer), who was re-elected to the office; hopes for his recovery were expressed. Mr. Fred Law, secretary since December 1922, wrote regretting that he felt it necessary, through other duties, to resign. Mr. J. E. Isherwood (past-president) said they could not overlook the services so worthily rendered by Mr. Law for the last fifteen years. He had had a membership roll of 150 to deal with, covering a wide area, and he had been guide, counsellor and friend to them all. Mr. W. H. Lightbown (another past-president) said it was twenty-five years ago since he came to Blackburn, and during that time he had been brought into close contact with the work of Mr. Law. No one could have laboured more zealously for pharmacy. Mr. Arthur Dobson, supporting, said the intimidation, which he regretted, came as a shock. Mr. Law suitably acknowledged the tributes. It was decided to place on record

appreciation of his long and faithful service. The following *Executive Committee* was appointed:—Rishton, Mr. Schaefer; Darwen, Mr. Driver; Accrington, Mr. S. H. Sidebottom; Oswaldtwistle, Mr. E. Eccles; Blackburn, Messrs. W. H. Lightbown, R. Lucas, W. Holt, F. Mullineaux, R. Stephenson, F. Gillibrand and J. Gillett. The committee was asked to formulate new branch rules. Mr. F. Gillibrand urged support of the Society's Benevolent Fund. He recommended periodical collections at meetings. Mr. Lightbown said he would prefer some scheme under which all the members subscribed. It was decided to adopt Mr. Gillibrand's suggestion, with modifications.

Blackpool

Members of the Blackpool Branch of the Pharmaceutical Society were addressed by Mr. J. W. Atkinson, Birmingham (a member of the Society's Council), recently. The registration of apprentices, he said, had declined by 33½ per cent., and there were more entrants for the medical profession than for pharmacy. Mr. Atkinson reviewed latest developments regarding the new building; doctors and dispensing; agitation from the branches; the Shops Sunday Trading Restriction Act; medicine-stamp duty; and the Benevolent Fund. When the meeting was thrown open for discussion Mr. Atkinson was kept busy answering questions. He was thanked by Mr. J. Dyson. Mr. S. C. Coope was in the chair.

The annual whist drive, dinner and dance of the Blackpool and Fylde branch of the Photographic Dealers' Association, held recently, was attended by 130 guests. Mr. J. Lancaster (national president) was unable to be present and Mr. J. Lomax (a member of Council) deputised. Kodak officials again put in some quick work; they photographed everyone on arrival and presented them with a finished portrait at midnight. After-dinner speeches were very short. The toast of "The President" (Mr. F. W. Ludlam) was proposed by Mr. J. Dyson (vice-president), and Mr. J. F. Blackhurst welcomed the ladies and visitors, on whose behalf Mr. Lomax replied. Messrs. J. Dyson and H. Lamb were M.C.s for whist and Messrs. W. Holmes and J. H. Jeffery for dancing. Mr. W. Jones (secretary) was responsible for the arrangements.

Durham

Durham County Branch of the Pharmaceutical Society met at Durham on March 18, Mr. J. A. Nichols in the chair. The secretary was asked to congratulate Mr. G. Low, M.P.S., Blackhill, upon topping the poll in his ward in the Consett Urban District Council elections. Mr. W. Nixon, Ph.C. (lecturer in pharmacy, Sunderland Technical College), read a paper on "The Training of Apprentices in Pharmacy." Mr. Nixon placed the origin of apprenticeship in the Middle Ages, when there existed three levels of professional standing: master, journeyman (wage-earner) and apprentice. The contract between master and apprentice was then far more comprehensive than now. Apprentices were kept for about ten years, not more than two to one journeyman (to prevent unemployment among journeymen). They usually finished their time at about twenty-three years of age. Mr. Nixon explained the present draft articles of pupilage, and urged master pharmacists to see that their apprentices got a proper training. Some students going up for Part II had never seen a pill-machine, suppository-mould, or plaster-iron. Mr. Brooks proposed a vote of thanks.

Leamington

At a general meeting of the Warwickshire Branch of the Pharmaceutical Society, held at Leamington Spa on March 18, the following officers were elected:—*President*, Mr. Charles Davis; *Vice-President*, Mr. C. H. Welton; *Treasurer*, Mr. W. T. Crane; *Secretary*, Mr. W. S. Davis. A vote of thanks was accorded to the retiring president (Mr. W. L. Nundy) for his services during the last five years. It was directed that a letter of thanks be sent to Colonel W. F. Wyley for his generous gift of a badge of office to the Branch, and to Mr. C. H. Welton for carrying out the arrangements for the annual dinner. The proposed rules from headquarters were completed and adopted, and a committee was appointed to deal with the Benevolent Fund and other matters. Messrs. Wooddisse and Price were elected auditors. It was decided that the Branch should be known in future as the Coventry and Warwickshire Branch.

London

At the annual parade of the London Van Horse Parade Society, held in Regent's Park on Easter Monday, Burroughs Wellcome & Co.'s entry was awarded a first prize, making the eighteenth in succession.

The new telephone number of the London representative of Ayrton, Saunders & Co., Ltd., Mr. J. E. C. Moss, 5 Wrayfield Road, Cheam, is Sutton 7431.

At Thames Police Court, on March 25, Doris Ganellin, perfumer, Commercial Road, E.1, pleaded "Guilty" to a charge of selling tincture of iodine deficient in iodine to the extent of 33.1 per cent. and in potassium iodide to the extent of 42.8 per cent. It was stated that the defendant told the inspector she sold the tincture as she received it from the wholesalers, but samples taken from the wholesalers proved to be correct. The summons was dismissed under the Probation of Offenders Act on payment of 42s. costs.

A meeting of the North Metropolitan Branch of the Pharmaceutical Society, held at 634 High Road, Tottenham, N.17, on March 22, discussed the Shops (Sunday Trading Restriction) Act and the operation of rotas in the various wards. One shop only will open in each ward on Sunday evenings during the summer period of twenty-one Sundays. The closed businesses are to display suitable notices for directing the public. It is claimed that in this way the whole area can be covered adequately, allowing one pharmacy in three to do duty, so that each member need only give service on seven two-hourly periods during the twenty-one weeks. It is hoped to extend the scheme to cover Thursday evenings also.

The Guild of Public Pharmacists held its "members' night" at 17 Bloomsbury Square on March 16, when the chair was taken by the president (Mr. C. H. Sykes). Mr. F. Hartley, B.Sc., A.I.C., Ph.C., gave an address on "Some Applications of Viscosity Measurements," and Mr. J. Soulsby, Ph.C., on "Some Applications of Alkalimetry," an account of experiments carried out at University College Hospital. Mr. B. V. Jillings gave an address on "Testing Bacteria-Proof Filters." Lengthy discussions followed. One point that arose was the care which must be taken in the selection of rubber caps for bottles of injections; it was stated that a number of caps contain an appreciable amount of extractive matter which finds its way into the solution. Three types of viscometer, apparatus for testing filter-candles and Sykes filters, cultures of *B. prodigiosus* and comparison photomicrographs of various bacteria. A vote of thanks to the lecturers was proposed by Mr. R. H. Henriksen and seconded by Mr. Griffith.

Manchester

The annual meeting of the Manchester and District Pharmaceutical Golfing Society was held at Houldsworth Hall on March 24, Mr. J. H. Franklin (president) in the chair. Mr. Franklin, in a brief review of the work of the season, said it had been one of the most successful and certainly one of the most enjoyable in the annals of the Society. The annual report and balance sheet, submitted by the treasurer (Mr. J. W. Aves), was considered eminently satisfactory. The *President* (Mr. J. H. Franklin), *Secretary* (Mr. W. E. Phillipson), and *Treasurer* (Mr. J. W. Aves) were re-elected. Mr. V. Cromack was elected *Captain* in succession to Councillor F. D. Gee. The courses chosen for the various matches and competitions in the coming season included Swinton Park, Davy-hulme, Marbury, Kenyon, Wilmslow, Sandiway, Mere, Plessington, Reddish Vale, Northenden and Hawkestone Park. It is proposed to open the season at Swinton Park Golf Club on April 21 with a competition for the president's prize. Chemists wishing to become members of the Society should write to Mr. W. E. Phillipson, 4 Hilltop Avenue, Blackley, Manchester.

Newcastle-upon-Tyne

Dr. J. Secker gave his annual lecture to the Newcastle District and Northumberland Branch of the Pharmaceutical Society recently. His subject was "Blood Pressure and Drugs." The lecture was illustrated by lantern slides. Dr. Secker described the different functions of the blood, and went on to compare the structure of the vein with that of the artery. He showed slides illustrating a mercurial kinograph for the measurement of blood pressure in animals, and a sphygmo-

manometer for the measurement of the blood pressure in human beings. Dr. Secker explained the action of various drugs used to raise or lower the blood pressure. Mr. Harris proposed a vote of thanks.

Peterborough

A meeting of the Peterborough Branch of the Pharmaceutical Society was held at Peterborough on March 18, to hear an address by Mr. J. W. Atkinson (a member of Council) on "Current Pharmaceutical Topics." Mr. H. Stanyon (president of the Branch) in the chair. Mr. Atkinson referred to the new "home" of pharmacy; recent pharmacy and poisons legislation; territorial representation; the reduction in the number of entrants to pharmacy; and the recent report on medicine-stamp duties. Members agreed that the remuneration of the pharmacist was not adequate, and that the prospects of pharmacy as a career were not too bright, when compared with other professions, considering cost of qualification, responsibility, and long hours of business. It was also agreed that territorial representation would be advantageous, but that there were difficulties. Questions were asked by Messrs. H. Stanyon, H. E. Whitwell, A. Duffield, F. Sturton, B. Wright, F. A. Glen, A. M. Graham, and G. W. Dring. Mr. Atkinson replied. A vote of thanks was moved by Mr. J. S. Prior (Stamford).

The annual dinner and dance of the Branch was held on the evening of the same day, Mr. H. E. Whitwell (president of the Chemists' Association) in the chair. Mr. J. W. Atkinson was the guest of honour, and among those present were Mr. Flinton Harris (president, Northampton Branch), and Mr. C. W. Wolfe (secretary, Northampton Branch). The spur tables were in charge of Messrs. A. Duffield, H. Stanyon, B. Wright (secretary), A. M. Graham and F. Sturton. The president proposed the loyal toast and Mr. H. Stanyon "The Pharmaceutical Society, coupled with the National Pharmaceutical Union." Mr. J. W. Atkinson, responding, made an earnest appeal on behalf of the Benevolent Fund. Mr. F. A. Glen proposed "The Visitors," and welcomed those from other professions. Mr. Flinton Harris, who this year completed fifty years in pharmacy, replied, and said it was his first visit to the Peterborough Branch. During dinner various coffrets and presentation sets, given by perfumery firms, were presented by Mrs. Whitwell (wife of the president) to persons holding lucky numbers. Mr. A. Duffield, who acted as toastmaster throughout, proposed "The President," who was given musical honours. At the dance which followed about 150 guests were present. Every lady was presented with a gift box of Innoxia aids to beauty, and coffrets and presentation sets were given for spot waltzes and competitions. During the dance a Kodak camera was raffled, and prize-winners gave back their prizes to be auctioned in aid of the Benevolent Fund. This produced a total of £5. M.C.s at the dance were Mr. A. M. Graham and Mr. F. A. Glen.

Scarborough

At a meeting of the Scarborough and District Branch of the Pharmaceutical Society, held at Scarborough on March 23, Mr. G. H. Meadley (chairman) presiding, members were addressed by Mr. J. F. McNeal (a member of the Society's council). He explained that as Scarborough had a resident member of council (Mr. H. M. Hirst) as secretary, no doubt they were kept well posted as to the activities of the Council. He outlined a Bill for pharmacy which he had drafted and which he hoped to introduce officially to the Council's notice shortly (*C. & D.*, March 20, p. 322). He also explained his ideas for a proposed corps of pharmacists to be trained for R.A.M.C. pharmaceutical work, and concluded by making a strong appeal for the Benevolent Fund. An animated discussion followed, the principal questioners being Messrs. Scott, Owston, Walker and Hopper. Mr. McNeal was of opinion that there should be a limitation of unqualified assistants employed in a pharmacy to two for every pharmacist actively engaged; that pharmacists should not be employed in combatant corps in the event of another war, but should be in charge of R.A.M.C. dispensaries, holding the rank of lieutenant as a rule and staff sergeant as a minimum; that much more of the Council's work should be done in public. There was little need, he said, for the private meeting held on the Tuesday evening, and he often had to decide how to vote on matters which had only been placed before him some ten minutes beforehand.

Miscellaneous

DISPLAY WEEK.—During Coronation week, the Herne Bay Electricity Co. are to offer prizes for the best illuminated business premises and are to make only a nominal charge for current used for decorative purposes. Tradesmen are arranging a window-display week.

PRESENTATIONS.—At the annual dance of Zenobia, Ltd., Loughborough, on March 12, presentations of cheques to employees who had completed twenty-five years' service were made by Mr. W. F. Charles (governing director). The recipients were Miss May Townsend (office staff) and Miss F. Lovett (box-making department). Among those present at the dance were the Mayor and Mayoress of Loughborough, and Captain C. E. Huston and Mr. W. W. Lax (co-directors).

SEAMEN'S MEDICAL BENEFIT REGULATIONS.—A draft of the Seamen's Medical Benefit Regulations, 1937, has been issued (price 1d.) by H.M. Stationery Office. Regulation 4 (6) of the draft reads as follows:—"Any separate regulations may authorise the society to make arrangements with any medical practitioner who undertakes to give medical attendance and treatment to members of the society for the supply by him of drugs, medicines, and prescribed appliances to those members."

Scottish Notes

Glasgow and West of Scotland

A course of fourteen popular lectures on "Flowers and Plant Life" (supplemented by five excursions to districts near Glasgow) is to be delivered by Miss Blodwen Lloyd, M.Sc., Ph.D., in the Royal Technical College, Glasgow, on Mondays and Thursdays, from 7.30 to 8.30 p.m. The introductory lecture (free) with lantern illustrations, will be given on May 3; subject, "Heredity in Flowering Plants."

A meeting of the Paisley and District Chemists' Association was held on March 22, Mr. Thos. McKim (vice-president) in the chair. The secretary intimated that there was a balance of money in hand from the whist drive and dance held on February 16. It was decided that £2 2s. should be sent to the Benevolent Fund of the Pharmaceutical Society. A discussion took place regarding the Select Committee's report on medicine stamp duties. It was decided that a letter be sent to Mr. Culbert (a member of the Society's Council) asking him to inform the Council that any measures the Pharmaceutical Society might take to prevent the adoption of the Select Committee's report would have the whole-hearted support of the Paisley and District Association.

Miscellaneous

PRICE ADVANCES.—The continued rise in raw materials is compelling retail chemists to advance many of their prices to the public.

SPRING SHOW.—S. Maw, Son & Sons, Ltd., are holding a spring show of chemists' sundries, under the charge of Mr. M. S. Iverson, chemist and druggist, in the Royal Hotel, Princes Street, Edinburgh. The show will continue until April 9.

INTENSIFIED COMPETITION.—"In a Fifeshire industrial centre of 30,000 population, which already possesses twelve pharmacies, there are shortly to be opened three co-operative drug departments and one multiple chemist branch," writes a contributor.

PETRIE TRUST BURSARY.—The examination for this bursary will be held in Robert Gordon's College on April 21. Entries must be in the hands of Mr. G. L. Spence, 136 Rosemount Place, Aberdeen, not later than April 17. Assistants and apprentices who have served not less than three years with a pharmacist in the city or county of Aberdeen are alone eligible.

GOLF COMPETITION.—The competition for the Scottish chemists' golf trophy will be held over the Gleneagles golf course on April 21. Players intending to be present are asked to forward their names and handicaps at all clubs of which they are members, with entry (2s. 6d.), to the secretary before April 10, stating whether wholesale or retail, and at what time they will arrive at the course.

Irish Notes

Pharmaceutical Society of Northern Ireland

The Register of the Pharmaceutical Society of Northern Ireland for the current year has been issued, and is obtainable at 73 University Street, Belfast. Office hours 10 a.m. to 4 p.m. (Saturdays 10 a.m. to noon).

Irish Drug Association

The Committee of the Irish Drug Association, at a recent meeting, Mr. P. A. Brady (the president) in the chair, passed a vote of sympathy with Mr. T. C. Scott, a past-president and member of the Committee, on the bereavement he suffered recently by the death of his father. A communication was received from the Irish Photo Finishers' Association, in which it was stated that the new scale of charges for 1937 became operative from Easter. Members were earnestly requested to co-operate with the Finishers' Association in their campaign to stabilise D. and P. prices. The proposed rules of the wholesale section of the I.D.A. were approved.

Belfast

At the annual meeting of the Belfast Wholesale Merchants' and Manufacturers' Association, on March 24, Mr. Fred Storey, Ph.C., president of the Chemists' and Druggists' Society of Ireland, was unanimously re-elected *President* for the ensuing year. In a review of the work Mr. Storey said they had just passed through another difficult year, but there was a distinct improvement in business. The coming year would be an anxious one. Intensive competition had not lessened at home, and there was no lessening of the high tariffs and restrictions of trade with the Free State. The Ulsterman, however, was noted for his doggedness, and his efforts to secure business in

Great Britain and overseas were meeting with success. Mr. R. Haslett (J. & J. Haslett, Ltd.), Sir Thomas McMullan (Thos. McMullan & Co.) and Mr. George Wilson (Jordan, Wilson & Alexander) were amongst those elected to the *General Committee*.

Miscellaneous

NEW PHARMACY.—Mr. Dominic O'Shea, Ph.C., has recently opened a pharmacy at Blackpool Bridge, Cork.

MR. JOHN J. MURTAGH, P.C.,

THE MEDICAL HALL, ARVA, CO.

CAVAN, WHO HAS BEEN AWARDED

THE HASLETT GOLD MEDAL.

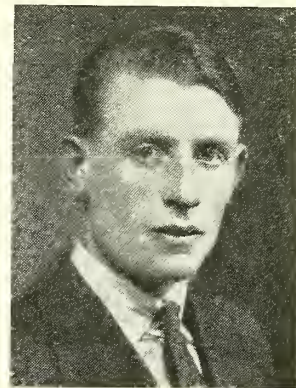


Photo.]

[Lafayette

AUTHORISED CONTRACTORS.—Ayrton, Saunders & Co. (Dublin), Ltd., have been appointed official contractors to the Local Government Department for the supply of drugs and medicines to the Dublin County Borough, Dublin Board of Assistance and the remainder of An Saorstad, with the exception of Cork Co. Boro and County Kerry.

Topical Reflections

By Xrayser

You Have Drawn Attention.

in your editorial article on p. 373. to aspects of the report of the Select Committee on Medicine Stamp Duties which are apt to be overlooked on the first examination of the situation which would be created if the recommendations were adopted. There is no doubt that in the case of known, admitted and approved remedies of all kinds there is safety for the public in the fact that the formula has to be shown in such plain terms that it should not be difficult for it to be compounded. If a medicine has to be stamped this safeguard will in many cases disappear, and many proprietary medicines will no doubt revert to those of the "quack" or secret type, a type which, under present conditions, is almost extinct, killed to a great extent by the publication of formulas. The growth of self-medication of a most undesirable type will be directly fostered by the change; and I can imagine that, should the worst happen, it will not be long before the Ministry of Health will be called in to deal with a state of affairs brought about in the desire to get revenue at whatever cost to the health of the nation. In addition the likely growth of patent-medicine vendors over and above the big number holding licences at present, and the putting on the market of secret proprietary medicines of low value, will undoubtedly tend to growing sales of these articles to the poorer and less educated section of the community.

I Like the Questions

of the secretary of Plymouth and District Branch of the Pharmaceutical Society (p. 383), because provision is made for a candidate engaged in wholesale trading; I have never been able to understand the views of those who would fill the Council with retail chemists only, or allow only one or two others to come in. I should like to see replies to the five questions by existing members of the Council as well as candidates. I believe that several of those already serving on that august body would, if they were explicit, reveal a state

of affairs which would indicate that they are not whole-heartedly the friends of the pharmacists, their constituents. It is time that we began seriously to think about the election, and I hope the banquet in April and the coronation in May will not be allowed to obscure the vision of the pharmaceutical electorate. As your correspondent "Elector" says on the same page, there are "rumblings"; whether these will materialise into an explosion remains to be seen; certain it is that in the minds of a large number of members there is a feeling, perhaps not yet articulate, that all is not well and that something must be done about it. It is a singular fact that, as I implied in this column last week, the air of the Council Chamber appears to have a somnolent effect upon the minds of those who as candidates showed distinct signs of revolutionary tendencies. Whether the pictures of dead and gone presidents which adorn the chamber cast a glamour over the scene, or the effect is produced by certain "spell-binders," I do not know, but the facts are proven.

Steamy Windows

is a subject of practical interest to every pharmacist in business (p. 383). The letter of your correspondent is one of those useful practical notes which are the result of experience. Many of your readers will be glad of the tip. Unfortunately, in the days when I was in business (and particularly in the earlier days) electric current was not always available. For lighting purposes we had to depend upon gas, and the heat produced, with the poor ventilation of the average shop window, resulted in the glass being covered with an impenetrable mist which was often not dissipated throughout the day. One of the suggestions to prevent this was, after cleaning the windows, to rub them lightly with glycerin; there were also proprietary applications on the market for the same purpose. Much of the trouble does not occur now because of the provision of methods for producing air currents; there are, however, still many old-fashioned windows where the electric fan will be found to be of use.

Legal Reports

Medicine Stamp Acts.—At North London Police Court, on March 23, Stanley Brandon, 70 Ripporth Road, E.3, was summoned for having sold a medicine liable to duty without having a licence. The defendant had sent a letter to the magistrate. Mr. Leslie Pocock, for the Commissioners of Customs and Excise, said that the facts were that Mr. Brandon had recently taken over a shop at 70 Ripporth Road, and in the ordinary way an officer of Customs went to see if a medicine-stamp licence had been taken out. He bought some medicine to prove the offence. The previous owner of the shop had a licence, which had expired. A fine of 10s. was imposed.

Personal Control of Shops.—At Bow Street Police Court, London, on March 15, Regent Chemists, Ltd., Old Compton Street, W.C.2, were summoned (1) for selling a poison by the agency of an unqualified assistant; (2) for selling a poison not duly labelled; (3) for selling a poison not being authorised sellers of poisons, the shop not being under the personal supervision of a qualified chemist. Mr. F. K. Glazebrook defended. It was stated that the defendants had a qualified manager in charge of each of their various shops, but that at the shop referred to the qualified man was temporarily absent at the time of the sale. They were acquitted on the third charge; the second was withdrawn; and on the first they were fined 5s., with 21s. costs. [Corrected notice.]

Pharmacy and Poisons Act, 1933.—At Morecambe Police Court, on March 23, Mr. Arthur Watson, Regent Road, was summoned for unlawfully using the description "pharmacy" in his business. He was represented by Captain A. Bates, who pleaded "Not guilty." Mr. W. H. Winder, prosecuting on behalf of the Pharmaceutical Society, stated that an inspector of the Society who made purchases at the defendant's shop received three bottles, on each of which was the label "Watson's Alhambra Pharmacy." Mr. Watson was not a registered pharmacist. Captain Bates said that immediately the Act came into force Mr. Watson complied with it by an alteration to the name of his premises. A firm of wholesale chemists who printed the bottle labels complained of had written expressing regret at their mistake. He suggested that the Society should be called the "Persecutical Society." The case was dismissed on payment of costs.—At the same court, Harry Smith, Highfield Drug Stores, West End Promenade, was summoned for selling poison, for selling it on premises not registered, not under the supervision of a registered pharmacist, and not labelled in the prescribed manner. Mr. Winder, prosecuting, said the preparation was a brand of syrup which on analysis was found to contain codeine. Mr. J. S. McAnulty, defending, submitted that it was the wholesalers who should have been prosecuted. He said that Mr. Smith did not know there was any poison in the preparation when he sold it. The defendant was ordered to pay 4s. on each of the four summonses, and 21s. advocate's fee.

At Lambeth Police Court, London, on March 24, the Pharmaceutical Society had four summonses for hearing. The first was against Mr. F. A. Owen, Walworth Road, S.E., for selling Famel Brand Syrup, containing codeine, he not being an authorised seller of poisons. The other three were against Mrs. L. Owen, of the same address, for not selling the syrup under the supervision of a registered pharmacist; for not labelling it in the prescribed manner; and for unlawfully using the title "chemist." Mr. A. C. Castle, who prosecuted on behalf of the Society, said he had agreed to withdraw the summonses against Mr. Owen. On the other summonses Mr. Robson, who represented Mrs. Owen, entered a plea of "Guilty." Mr. Castle said the business was formerly run by the defendant's husband, who was a registered pharmacist, and now, as personal representative, Mrs. Owen was entitled to carry on for five years. As the result of information received, one of the Society's inspectors called at the premises and made a test purchase. Mr. Robson said that Mrs. Owen was the mother of Frank Alfred Owen and Reginald A. Owen. When she was left a widow in 1919 they were both young boys, and she carried on the business. Both her sons became qualified chemists, and one became the manager of a shop at Tooting and the other in Walworth Road. In the winter of 1936 the shop at Walworth Road was left without a registered chemist in charge. Now things would be done in

a proper way, and there was a qualified man at Walworth Road. The magistrate inquired whether there were any previous convictions against the defendant, and Mr. Castle said that he was always in a difficulty to answer that question. Prior to the 1933 Act, proceedings against offenders were taken in the County Court under the 1868 Act, and under that there was one mitigated penalty for selling chlorodyne. The magistrate said he was not going to pay any regard to the matter in the County Court, because this was a new Act. He would dismiss all the offences under the Probation of Offenders Act, with the exception of the one for not having a registered pharmacist on the premises, for which there would be a fine of 40s., with £3 3s. costs.

At Thames Police Court, London, on March 25, Cohen's Pharmacy, Ltd., Redman's Road, E.1, were summoned at the instance of the Pharmaceutical Society for (1) selling by retail, whilst not being authorised sellers of poisons, codeine contained in Famel Brand Syrup; (2) selling such poison, the sale not being effected by or under the supervision of a registered pharmacist; (3) selling such poison in a container not labelled in the prescribed manner. Mr. Fruitman appeared for the defendant company and pleaded "Guilty" to the second and third summonses, the first being withdrawn. Mr. A. C. Castle, prosecuting, said that when a test purchase was made the sale was effected by a Mrs. Cohen, and when the inspector entered the premises afterwards he found there was no qualified pharmacist present. Subsequently he found that a qualified pharmacist was employed, but he was told the man was out at lunch. The time was about 3.15 p.m. Addressing the magistrate in mitigation, Mr. Fruitman said that the substance was a proprietary article and contained codeine, he was instructed, equivalent to one-eightieth of a harmful dose. The defendants had a very small sale for it, so much so that Mrs. Cohen did not know the proper price. Rebuilding was taking place at the premises, and arrangements had been made for the registered pharmacist to have his midday meal later. There had been no deliberate evasion of the law. Mr. Castle asked for £5 5s. costs, reminding the magistrate that the case had been adjourned from the previous week because the defendant company were not legally represented. Mr. Fruitman objected. The magistrate imposed a fine of £7 on the second summons, a fine of £2 on the third summons, and ordered the defendants to pay £5 5s. costs.

At Blackpool Police Court, recently, Thomas Edward Ball, Lytham Road, and James Moore, Foxhall Road, were each fined £5, with £2 2s. costs, for unlawfully using the word "pharmacy."—Mrs. Goode, Central Drive, was fined a total of £2, with £4 14s. 6d. costs, for selling poison on unregistered premises, for selling it not under the supervision of a registered pharmacist, not duly labelled, and while not authorised.

At Fleetwood Police Court four similar offences resulted in Joseph Ashworth, Lord Street, Fleetwood, being fined 5s. in each case.—At Lytham, Mrs. Hilda Yates, Heeley Road, was fined 10s. on each of four charges, with £2 2s. costs.

At Bolton, recently, A. Ashworth, Derby Street, was fined sums amounting to £3 10s., with £3 3s. costs, on summonses for having sold codeine contained in a proprietary syrup.—At the same court, W. Green & Co., Ltd., Fold Street, were fined, including costs, a total of £7 13s. on similar charges.

Business Changes

MR. J. A. BAMFORTH, chemist and druggist, has opened a pharmacy at 1A Oak Buildings, Oak Road, Redcar.

J. BELL & Co., chemists, have transferred their business from 22 Robertson Street to 43 Cambridge Road, Hastings, as from April 2.

LEON FRENKEL, LTD., olive oil merchants, have removed to 5 Fen Court, London, E.C.3. Telephone: Mansion House 1774. Telegrams: Oliocos, Fen, London.

MR. H. C. EDWARDS, chemist and druggist, has sold the freehold of his premises at 17 Queen's Road, Hastings. The business was closed on March 29 and the prescription-books transferred to his business at 478 Old London Road, Ore, Hastings.

Company News

P.C. means Private Company and R.O. Registered Office

J. FERRER, LTD. (P.C.).—Capital £100. Objects: To carry on the business of dealers in and manufacturers of chemicals, drugs, medicines, toilet requisites, etc. R.O.: 183E Old Street, E.C.1.

R. GREENBERG, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturing chemists, wholesale and retail dealers in perfumery, cosmetics, etc. R.O.: 190 High Street, Walthamstow, E.17.

OYSTRAX, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, disinfectants, fertilisers, etc. R.O.: 4 St. Bride Street, Ludgate Circus, E.C.4.

YE OLDE SEAFORD PHARMACIE, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of pharmacists, etc. Wm. Ford, 34 Osterley Court, Osterley, Middlesex, director. R.O.: 65 Holborn Viaduct, E.C.1.

MOORE & MACDONALD, LTD. (P.C.).—Registered in Belfast. Capital £1,000. Objects: To carry on the business of pharmaceutical chemists, druggists, etc. William J. Moore, 110 Upper Newtownards Road, Knock, Belfast, chemist, director. R.O.: 389 Newtownards Road, Belfast.

ANDRÉ AUNE (LONDON), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of brokers of and dealers in oil seeds, essential oils, glycerin and chemicals of all kinds, etc. John W. Fall, 20 Park Hill, Carshalton, Surrey, director. R.O.: 17 Philpot Lane, E.C.3.

HUTCHINSON & PHILLIPS, LTD. (P.C.).—Capital £500. Objects: To carry on business as manufacturers of and dealers in chemicals, drugs, medicines, etc. Basil Hutchinson (managing director), Rosslyn, Ethelwulf Road, West Tarring, Worthing. R.O.: 8 Rectory Road, West Tarring, Worthing.

PEPPER'S WHOLESALE SUPPLIES, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of manufacturers of, and wholesale and retail dealers in, cosmetics, creams, soaps, perfumes, etc. Geo. R. Pepper, 4 Gedling Road, Carlton, Notts, director. R.O.: 11 King's Walk, Nottingham.

EDGE'S, LTD. (P.C.).—Capital £200. Objects: To acquire the business of manufacturing druggists and herbalists carried on by T. Edge and J. W. Edge at 26 Albion Street, 13 Market Avenue, Oldham, and at Bottom Market, Lord Street, Rochdale, as "T. & J. W. Edge." Thos. Edge, 5 Garsden Avenue, Blackburn, director.

UNITED COMPOSITIONS, LTD. (P.C.).—Registered in Edinburgh. Capital £2,000. Objects: To carry on the business of metallurgists, chemists, manufacturers of and dealers in metals, chemicals, etc. Henry B. Russell, "Seafield," Cardross, Dumbartonshire, director. R.O.: 108 Douglas Street, Glasgow, C.2.

GLIMCOL MANUFACTURING CO., LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers and dealers in cleaning, polishing and preserving materials and solutions, soaps, toilet requisites and preparations, etc. George W. Limmer, Elm Gables, Burnham, Bucks, director. R.O.: 23 Bury Street, St. James's, S.W.1.

PURO SOAP CO., LTD. (P.C.).—Capital £40,000. Objects: To acquire the business of a soap and soap powder manufacturer carried on by Arthur Barrett at Prospect Works, Whitehall Road, Leeds, as the "Puro Soap Company." The first and permanent directors are Arthur Barrett (governing director and chairman) and Ethel M. Barrett.

MILADIN, LTD. (P.C.).—Capital £5,500. Objects: To establish clinics in London and elsewhere for the curative treatment of arthritis, rheumatism and allied ailments by medicinal, electrical and other means, and to carry on the business of manufacturers of and dealers in chemical and medicinal compounds, etc. Chas. G. Moreland, 11 London Road, Bromley, Kent (permanent managing director). R.O.: Carlton House, 11 Regent Street, S.W.1.

WILLIAM BLYTHE & CO., LTD.—Report a net profit of £32,115 for 1936 (against £33,546 for 1935). After reserving £2,729 (against £2,449) for taxation and meeting the prefer-

ence dividends, the directors propose to pay a final dividend of 7 per cent. on the ordinary shares, again making a total distribution of 10 per cent. for the year. General reserve is to be credited with £8,000 (against £5,000), and £1,079 (against £4,421) is to be added to depreciation reserve, leaving £3,473 to be carried forward (against £5,225). Excluding interests in subsidiary companies, floating assets total £138,860, while creditors amount to £15,659.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Dividend for 1936 is at the same rate as for 1935, the final distribution for the year being 5½ per cent., making 8 per cent. on the £49,198,900 of ordinary stock. The amount of capital on which the dividend will be paid is the same as for 1935, when the actual distribution was held up pending the result of the appeal on the matter of the capital consolidation scheme. The profit for 1936, after providing £1,000,000, as before, to central obsolescence and depreciation fund, and £846,093 for income tax, was £7,203,329, against £6,706,539 for 1935, an increase of £496,790. After providing for the dividends, the board are placing £1,500,000 to general reserve, against £1,000,000, and £150,000 to workers' pension fund. In respect of 1935, a similar sum was allocated to workers' pension fund, and £217,366 was put to contingent dividend reserve. The balance remaining to be carried forward will be £665,142, as compared with £638,740.

Private Arrangements

J. McCarthy, chemist, trading as The Talbot Pharmacy, 84 Talbot Street, Dublin. A meeting of the creditors was held recently at the offices of Mr. H. H. Forsyth, accountant, Dublin. The statement of affairs showed ranking liabilities of £1,601 2s. 1d. The assets totalled £290 1s. 11d., or a deficiency of £1,311 0s. 2d. It was stated that the present position was due to a decline in the business and the heavy overhead expenses. An offer was made of a cash composition of 2s. 6d. in the £, which it was decided should be accepted.

Alexander Leitch, Gladstone Buildings, Tain, chemist. A meeting of the creditors was held recently at the offices of Messrs. Mackenzie & Cormack, solicitors, Tain. A trust deed had previously been executed in favour of Mr. C. G. Macdowall, Dingwall. The statement of affairs showed ranking liabilities of £1,100 7s. After allowing £22 2s. 9d. for preferential claims the net assets were £50 5s. 4d., or a deficiency of £1,050 1s. 8d. The debtor commenced trading on his own account on August 1, 1933, and the trustee estimated that the turnover had been at the rate of £900 per annum. The business was being continued with a view to a sale as a going concern. The creditors decided to confirm the trust deed.

Bankruptcy Reports

Re Haden Beecher Ward, 475 London Road, Sheffield, chemist. A deficiency of £915 19s. 1d. on unsecured liabilities of £1,092 9s. 1d. was disclosed at the first meeting of creditors held in this matter recently at the Official Receiver's offices, Sheffield. The case was left with the Official Receiver, as trustee.

Re Ronald White, 233 Bristol Street, Birmingham, chemist. The public examination herein was to have been held recently at the Court House, Corporation Street, Birmingham, but debtor's representative asked for an adjournment of the proceedings. The petitioning creditors intimated that they had no objection to an adjournment, and the examination was, therefore, postponed.

According to "The Birmingham Post" the debtor, who was reported missing last December, has now returned to Birmingham. Debtor, in an interview, is reported to have stated "that he did not know what had happened and could only suppose that he had been suffering from loss of memory. While on Ilfracombe cliffs he and the boy were cut off by the tide. Rescued by a cargo boat, they worked their passages to Buenos Ayres. One day he realised that something was amiss and consulted a doctor, who said he must have had a shock. They left South America in a boat bound for Ireland and crossed to Liverpool."

Science Papers at Edinburgh

(Concluded from THE CHEMIST AND DRUGGIST, March 27, p. 369)

Discussion

MR. RUTHERFORD HILL said he had noticed an instance in which the analyst reported a deficiency of boric acid in a test prescription and, glancing at the formula, it occurred to him that the analyst had failed to realise what took place in the making of the solution. On mentioning the matter to Dr. Blackie he discovered that the question was already under investigation, and he had to congratulate Mr. Ritchie on the very thorough manner in which he had completed the work. It was particularly interesting to note that the solution could be prepared in ten minutes instead of several hours, giving a solution in every respect superior to that taking longer time.

DR. BLACKIE said this problem came to his notice, and he realised that the analyst had overlooked what took place in the making of the solution. After writing an explanatory letter no further proceedings were taken. He would like to congratulate Mr. Ritchie on his first appearance in contributing a paper to the proceedings.

MR. MERSON said in listening to this paper he had been confirmed in his view that the public analyst should be a pharmacist as well as F.I.C.

MR. MACKENZIE said he would like to ask if Mr. Ritchie had taken any note of the time during which the solution remained up to standard.

MR. HUNTER said this paper confirmed the view that eusol should be discarded in favour of Dakin's solution.

DR. TAIT said, in congratulating Mr. Ritchie, it was fortunate they had such competent observers to protect them against the vagaries of public analysts. He (Dr. Tait) was a pupil of Lorrain Smith when eusol was first introduced during the war period. As was generally known, the first two letters of the word signified "Edinburgh University." He quite agreed with what Mr. Hunter had said.

MR. RITCHIE, in reply, said he had not made any observations as to the keeping properties of the solution, but he believed it deteriorated rapidly even in strong solution. Dakin's solution was more stable.

THE CHAIRMAN (Mr. F. W. M. Bennett), in thanking Mr. Ritchie, said this communication was particularly gratifying to himself because it brought out a point on which he had frequently insisted. When a pharmacist conscientiously did his best to furnish what was required, he ought not to be subjected to an analytical test by a person not fully acquainted with the matter he was handling.

Mr. William R. Heading, B.Sc., Ph.C., A.I.C., followed with notes on

Modern Chlorinated Disinfectants

[ABSTRACT]

SCOTLAND gave a lead in the early use of disinfectants. Lister developed the use of phenol, while Edinburgh University has done considerable work on hypochlorites. Both had disadvantages for delicate skin and wound disinfection. Their natural outcome, the chlorinated phenol, combined many of their virtues and few of their drawbacks. Inhibitory agents, such as weak alcohol, soap solution, syrup, etc., were weakest in chemical action. They could not be relied upon to kill bacteria in the vegetative state but would prevent their germination or continued growth. Disinfectants and antiseptics, which might be regarded as synonymous, were not only inhibitory, but were designed to kill vegetative pathogenic organisms. They might also kill spores, but could not be relied upon to do so under all conditions. Many phenols and essential oils came in this class. Stronger in their action were the true germicides or bactericides, lethal to all forms of vegetative bacteria (chlorinated phenols, many soluble mercury and silver salts, numerous dyes). Finally came sporicides (sulphuric acid, iodine and hydrogen peroxide in high concentrations). These chemically destroyed both vegetative bacteria and spores, but were usually too corrosive for medical use. The latest type of chlorinated phenol preparations came in the third category. They were effective in water and serum, pleasant to use, relatively non-

poisonous and non-corrosive, easy to use and non-staining, and, although not miscible with water, formed stable, finely-divided emulsions on dilution. Their general composition was indicated in "Formulae Which Produce Profit" ("The Pharmaceutical Journal," September 12, 1936). A typical preparation consisted of about 4 to 10 per cent. monochlorinated phenol; a similar percentage by volume of volatile oil; a vegetable-oil soap-solution; and an aqueous-alcoholic vehicle. The first two constituents were mainly responsible for the germicidal activity. The compounds were white, crystalline and stable, with a faintly phenolic odour, and readily soluble in alcohol and aqueous alkalis, giving no coloration with the latter. They could be prepared by the action of sulphuryl chloride on the phenol, melted or in acetic acid solution, but were usually made by direct chlorination. A patent had been taken out for manufacturing *p*-chlorothymol from isopropyl alcohol and *p*-chloro-*m*-cresol by condensation in presence of sulphuric acid.

The volatile oil portion of the germicide might consist of any combination of natural essential oils or synthetic terpenes giving a pleasant odour, having a definite germicidal value, and soluble in soap solution. Alkali produced from the latter made care necessary in using oils containing much aldehyde or unsaturated hydrocarbons, as resinification and darkening might occur. Terpeneol, oils of pine, verbenal and eucalyptus were suitable, and mention should be made of ti-tree oil. The soap in the preparation dissolved the oils and chlorophenol, whose solution could only otherwise be effected with excess of alcohol; enabled it to permeate deep-seated wounds and remove natural grease from the surface of the skin; and was itself inhibitory against bacteria. It was essential to choose a soap with good solvent power. Green soft soap, linseed and coconut oil soaps, saponins and sulphonated oils failed to give a consistently clear solution, and castor-oil soap was found best. The oil had the further advantages of being saturated and non-drying, while the hydroxyl group conferred on it a greater bactericidal action. The natural base for such a soap appeared to be soda or potash, but ammonia, giving ammonium ricinoleate, enabled the germicide to be truly described as non-caustic. This soap was quite stable in 20 per cent. aqueous solution and had a solvent power for essential oils almost equal to that of the potash soap. The addition of 1 per cent. cyclohexanol stabilised the solution by reducing hydrolysis. It was worth noting that these germicides were not included in any of the Schedules of the Poisons List since the principal constituent was a derivative, not a homologue, of phenol. They might be applied neat to a wound without causing irritation (and in this respect showed a marked advantage over iodine), or employed in various dilutions as gargles, mouth washes, douches, and for instrument sterilisation. They were not yet cheap enough to be much used for other than medical work, but there was no reason to suppose that chlorinated phenol might not yet be used for industrial and general disinfection. (The author thanked the directors of G. F. Merson, Ltd., Edinburgh, for permission to read the paper, and Mr. E. J. Holder, who had helped prepare the culture tubes.)

Discussion

DR. BLACKIE said they were much indebted to Mr. Heading for this interesting communication. They had all watched the series of proprietary disinfectants of this class which had recently appeared on the market, but their composition had not been much understood. Mr. Heading had given them a great deal of information, and his practical demonstration of how these compounds could be readily produced was most interesting. He understood the cost was a difficulty. The established disinfectants could be produced more cheaply.

MR. HOLDER said he was in the privileged position of having observed Mr. Heading carrying out this work, and had been not a little bewildered at the number of facts which he brought out. His interpretation of the facts was a matter for congratulation. They required a proper definition of the word "sterile" and, if necessary, subdivisions of it. That was a point that might be dealt with in any revision of the B.P.

MR. MITCHELL said Mr. Heading spoke of mono-chlorinated phenols. He would like to ask if anything was known about brominated phenols. He had examined some of these modern antiseptics, and he noticed that the turbidity of equivalent dilutions varied considerably. Was there any method of getting an approximately bright solution?

MR. BEATTIE said he would like to ask if Mr. Heading had had any experience of parachloroxylenol as an antiseptic in hypodermic injections.

MR. RUTHERFORD HILL said there could be no doubt these chlorinated disinfectants possessed advantages over the older disinfectants such as lysol. They might regard it as probable that lysol, at least as a disinfectant for medical purposes, would entirely disappear. There should, however, perhaps be a word of caution as to the claims made for these newer chlorinated disinfectants. There was room for caution as to their alleged harmlessness. In regard also to the suggestion of being non-irritant and non-corrosive, he had heard of an instance which suggested that even in this regard there ought to be caution and strict attention to the requirements as to dilution.

DR. TAIT said, speaking from medical experience, he had had various samples of these newer preparations submitted and had tried them out. He had found that, properly diluted, they made an excellent gargle. They were pleasant and agreeable in use, and he thought there was no doubt that they would replace the older disinfectants in time.

MR. CURRIE said he had found that these modern disinfectants were not suitable for every skin. He had come across several instances in which the patients refused to use them because of their deleterious effects.

MR. MURRAY said he would like to ask Mr. Heading if he had tried the modern acid soaps.

MR. HEADING, replying, said as to the reference to cost by Dr. Blackie, the expensive constituent was the chlorophenol, this being mainly due to the need for obtaining a pure phenol at the outset for chlorination and involving its separation from a mixture of isomers. With regard to the other halogenated phenols and turbidity of the dilutions, with the exception of iodothymol he had not prepared any derivatives using halogens other than chlorine, as from available literature there appeared to be no advantage in bacterial action. There might be a future for fluorophenols. Turbidity on dilution with water was in some respects a drawback, but one which, considering the physical nature of the preparation, seemed difficult to prevent. It had not been definitely established that germicides were less effective in finely divided emulsion than in solution. With regard to the use of parachloroxylenol as a preservative in hypodermic injections, this had been recommended by E. A. Lum for use in vaccines and by other workers for use in morphine injections. He had not yet tried the acid soaps of the sodium lauryl sulphate type, only sodium sulphoricinoleate, which had not been as good as the normal soap. These acid soaps were apparently designed to produce stable emulsions and were certainly worth a trial; but the finished product required to be a solution, a state effected quite well by castor oil soap.

THE CHAIRMAN thanked Mr. Heading.

MR. J. Rutherford Hill, Ph.C., concluded with an

Incompatible Mixture: Syrup of Tolu and Ammonium Carbonate

[ABSTRACT]

Recently an inquiry was made why the following mixture became coloured and ultimately black:—Ammon. carb 3iij; syr. tolu. ʒvj. It was assumed that there might be some reaction between the ammonium carbonate and the constituents of the syrup of tolu, viz., benzoic acid (about 6 grains in 6 oz.); cinnamic acid (about 1 grain in 6 oz.); benzyl benzoate with some benzyl cinnamate (a small percentage); vanillin (possibly over 6 grains in 6 oz.); and sugar. The text-books stated that balsam of tolu contained a "trace" of vanillin, but evidence suggested an appreciable quantity, probably a little over 1 per cent. Saturated solutions of benzoic acid, cinnamic acid and benzyl benzoate were prepared, and in these the ammonium carbonate was dissolved. They remained colourless. It therefore appeared that the darkening of the mixture was not due to these constituents. On adding ammonium carbonate to a saturated solution of vanillin, there was an almost immediate development of reddish colour, pass-

ing to brownish-violet and ultimately black, with a considerable black precipitate. Sugar did not seem to enter into the reaction though it seemed slightly to retard it. The darkening of the mixture was therefore due to an oxidation product of the vanillin in the syrup of tolu in presence of ammonium carbonate. The colour was quite evident in an aqueous solution of ammonium carbonate containing only 1 in 4,000 of vanillin. An endeavour was made to obviate the darkening by adding sodium bisulphite. This successfully prevented oxidation in an aqueous solution of vanillin but, on the addition of an alkali, oxidation and coloration immediately began at the surface and slowly spread through the solution. It would appear, therefore, that this incompatibility was inevitable and could not be obviated. (Mr. Hill acknowledged the assistance of Mr. John Milton.)

THE CHAIRMAN, in thanking Mr. Hill, said this was particularly interesting because it was a matter that cropped up in everyday dispensing.

On the motion of MR. J. B. MITCHELL a cordial vote of thanks was accorded to the Chairman.

THE CHAIRMAN, in acknowledging the vote of thanks, said that already they had prospects of interesting material for the session that would begin next winter.

Items in Parliament

HOLIDAYS WITH PAY

The Minister of Labour was asked the terms of reference and the names of the members of the committee to inquire into the question of holidays with pay; and the date of the committee's first sitting?

The Minister of Labour (Mr. Ernest Brown): The terms of reference of this committee are:—

"To investigate the extent to which holidays with pay are given to employed workpeople, and the possibility of extending the provision of such holidays by statutory enactment or otherwise; and to make recommendations."

I am glad to say that I have been able to obtain the services of Lord Amulree as chairman. The other members include representatives of employers and workpeople appointed in consultation with the National Confederation of Employers' Organisations and the Trades Union Council. The committee will hold its first meeting as soon as possible after Easter. Following is the list of members:—Rt. Hon. Lord Amulree, G.B.E., K.C., LL.D. (chairman), Mr. Ernest Bevin, Captain George Deakin, M.C., Mr. Charles Dukes, Mr. H. H. Elvin, Lady Findlay, D.B.E., Mr. J. Hallsworth, the hon. member for East Woolwich (Mr. George Hicks), Mr. A. Lyndon Lawrence, Miss Anne Loughlin, O.B.E., Mr. R. Mortimer Montgomery, K.C., Sir David J. Owen, Sir Frederick Richmond, Bt., Mr. W. D. Ross, O.B.E., M.A., LL.D., Litt.D., F.B.A., Mr. W. M. Wiggins, J.P., Sir Evan Williams, Bt. The secretary is Mr. H. M. Phillips, Ministry of Labour, Montagu House, Whitehall, London, S.W.1.

CONVEYANCE OF DANGEROUS GOODS

The Home Secretary was asked whether, in view of the dangerous nature of the conveyance by road of vitriol and other similar explosive substances, he would consider strengthening the regulations for transporting the same?

Captain Margesson: Yes, sir. Draft Regulations under the Petroleum (Consolidation) Act, 1928, to control the conveyance by road of a number of dangerous substances, including sulphuric acid, have been prepared in consultation with the various interests affected, and my right hon. Friend hopes to be in a position to issue them before long.

N.H.I. BENEFITS NOT USED

The Minister of Health was asked whether, taking the figures for the last five years, he could state the average number of insured persons who had never used the services of their panel doctor?

Sir K. Wood: In each of the five years 1932 to 1936 the number of insured persons in England and Wales who, although entitled to medical benefit, had not chosen an insurance doctor, was on the average about 495,000. I cannot give a similar figure of the number of persons who have chosen a doctor but have not used his services.

National Pharmaceutical Union

Executive Meetings

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, recently, Mr. D. A. Bryan in the chair.

NATIONAL HEALTH INSURANCE

A reply was received from the Ministry of Health agreeing to the suggestions made by the Executive in regard to the proposed changes in the Drug Tariff. In regard to Standard Dressing No. 2, the Ministry stated that as this was prescribed fairly frequently, it was proposed to retain this in Part III (b) of the Tariff and to review the position in twelve months.

Resolutions had been received from the Federation of Welsh Pharmaceutical Committees on various N.H.I. matters, and expressing dissatisfaction with the position of the drug fund.

The secretary reported that a resolution had been adopted by the panel chemists in Eastbourne strongly objecting to the discounting.

RETAIL PRICE LIST

The secretary reported that letters had been received from a number of members complimenting the Executive on this new publication.

SELECT COMMITTEE ON MEDICINE STAMP DUTIES

The secretary reported upon the action which had been taken in regard to the report of the Select Committee on Medicine Stamp Duties, following upon conferences of the trade organisations. The Executive passed resolutions expressing strong disapproval of the report, which the secretary was directed to send to the Chancellor of the Exchequer, the Board of Customs and Excise, and the Ministry of Health. The secretary was also instructed to write to every member of Parliament.

A resolution was received from the Maidenhead Branch urging that the retention of the "known, admitted and approved" remedies be secured if possible, but, if not, the exemption of the B.P. and B.P.C. preparations whether recommended or not, if sold by pharmacists.

C.D.A. Matters

The secretary reported that there were thirty-nine cases outstanding since the last meeting, but nineteen might be considered closed, and seven had been settled as follows:—Oil of nutmeg containing oil of mirbane; claim settled by payment of £205. Wheat failed to germinate after application of formula supplied; claim settled for £12 5s. Injuries caused by falling sign; claim settled for £10 10s. Injuries caused by fall in shop doorway; claim settled for £3 15s. 6d. Damages caused by cycling errand boys (two cases); claims settled for £2 15s. and £2 5s. respectively. Coat torn on sun blind hook; claim settled for 7s. 2d.

Thirteen new cases had arisen during the month, and the following settlements had been effected:—Dispensed powders; claim settled for £5. Emulsion staining clothing; claim settled for 16s. Injuries from fall in shop; claim settled for 16s. 9d. Accumulators damaged by industrial spirit supplied for distilled water; claim settled for £4 4s. Damage caused by cycling errand-boy; claim settled for £1 12s. 6d. Injuries sustained by dustman on member's premises; claim settled for £4 14s. 6d.

N.P.U. Annual Meeting

The sixteenth annual meeting of the National Pharmaceutical Union was held at 4 and 5 Queen Square, London, W.C.1, on March 23, Mr. D. A. Bryan in the chair.

REPORTS ADOPTED

In presenting the annual report, THE CHAIRMAN referred briefly to the various items of the year's work, which he said he felt sure would strengthen the feeling of confidence reposed in the Union. He moved the adoption of the report. This was seconded by Mr. TRISTRAM and carried unanimously.

THE TREASURER (Mr. A. R. Melhuish) moved the adoption of the income and expenditure account, balance sheet and

auditors' report, and in doing so said he was happy to present such a favourable report this year. He could not promise that every year would be equally good. The Union might be faced in the future with difficulties and expenses which it was impossible to foresee. The adoption was seconded by Mr. TRISTRAM, supported by Mr. YEATES, and carried unanimously.

BY-ELECTION RESULT

THE CHAIRMAN gave details of the voting in respect of the by-election which had been held to fill the vacancy on the Executive caused by the lamented death of Mr. H. Gilleghan (C. & D., March 27, p. 361).

VOTES OF THANKS

Mr. A. A. ATKINSON (vice-chairman) proposed a vote of thanks to the retiring chairman. Mr. Bryan, he said, had moved about the branches in the country and had done much to further the interests of the Union.

The vote was seconded by Mr. FORSTER, supported by Mr. STEARN, and carried with applause.

Mr. BRYAN, replying, thanked the Executive for the support they had given him, and paid a tribute to the work of the officers and staff of the Union.

C.D.A. Annual Meeting

The thirty-sixth annual meeting of the Chemists' Defence Association, Ltd., was held at 4 and 5 Queen Square, London, W.C.1, on March 23, following the annual meeting of the National Pharmaceutical Union. Mr. D. A. Bryan was in the chair.

REPORTS ADOPTED

THE CHAIRMAN moved the adoption of the accounts and balance sheet and the reports of the directors and auditors. This was seconded by Mr. ATKINSON and carried unanimously.

ELECTION OF DIRECTORS

It was moved by Mr. MARSHALL, seconded by Mr. HAGUE, and carried unanimously, that the following be elected directors of the Company:—Messrs. E. A. Atkins, W. W. Atkinson, D. A. Bryan, B. P. Davies, A. Dobson, J. Evans, W. Forster, J. E. French, J. Hague, J. Hearle, T. Heseltine, C. W. Hobson, H. H. Marshall, A. R. Melhuish, W. I. Scholes, S. J. Stearn, W. J. Tristram, C. J. Yeates.

VOTES OF THANKS

THE CHAIRMAN then called upon Mr. Lacey, the Association's solicitor, to speak upon the work he had done for the Association.

Mr. LACEY, who was very cordially received, said he could say very little which had not been incorporated in the annual report. There had been nothing outstanding in the claims. He paid a tribute to the great ability of Mr. H. Glyn-Jones, and the businesslike way in which he always defended the cases on behalf of the Association.

THE CHAIRMAN thanked Mr. Lacey on behalf of the directors.

Mr. A. R. MELHUSH (treasurer) proposed a vote of thanks to the chairman for the efficient manner in which he had conducted the meetings of the directors during the past year, and in doing so referred appreciatively to the work of the secretary, the assistant secretary and their staff.

The motion was seconded by Mr. E. A. ATKINS, and carried with applause.

THE CHAIRMAN replied, thanking the directors and associating himself with Mr. Melhuish in his remarks about the staff.

THE SECRETARY thanked the directors for their expression of confidence and for their kindness during the year.

Annual Meeting of N.P.U., Ltd.

The second annual meeting of N.P.U., Ltd., was held at 4 and 5 Queen Square, London, W.C.1, on March 23. THE SECRETARY stated that the meeting was purely formal, as the directors were the only shareholders and had already passed the accounts. Mr. MARSHALL voted the adoption of the auditors' report and statement of accounts. This was seconded by Mr. DOBSON and carried unanimously.

Antiseptics Compared

IN a recent issue of "The Journal of the American Medical Association" (108,4,280) R. N. Nye gives the results obtained in a series of studies on the relative activity *in vitro* of a selection of antiseptics. The article is illustrated by six tables. The antiseptics employed were (a) four solutions containing iodine; (b) seven solutions containing mercury; (c) two solutions containing chlorine; (d) three "miscellaneous" solutions. Most of these substances were proprietary articles or the products of specified manufacturers. All these antiseptics were tested simultaneously for (1) bactericidal activity, (2) bactericidal activity in mixtures containing 50 per cent. of horse serum, (3) diffusibility, (4) toxicity. In addition, figures representing units costs were obtained.

Bactericidal Activity

As a measure of bactericidal activity the "F. D. A. method (special) *S. aureus*, 37° C.," as recommended by the Food and Drug Administration and described (December 1931) by the United States Department of Agriculture, was followed explicitly with two exceptions. First, the highest dilution killing in five minutes was considered the limit of bactericidal activity, rather than the highest dilution killing in ten minutes but not in five minutes. Secondly, standardised pipettes were not used in making the dilutions. The resistance of the culture was assured by control tests with 1:80 and 1:90 dilutions of phenol. The author's table indicates that compound solution of iodine, U. S. P., was by far the most effective. The bactericidal activity of the other solutions containing iodine was directly proportional to their iodine content. In all an actual iodine concentration of about 1:4,500 killed the cocci. Solutions containing chlorine came next in effectiveness, then the miscellaneous group, and finally the mercury compounds. The last group showed considerable bacteriostatic power, but actual killing was accomplished by only three, of which one had to be used undiluted and another diluted only 1:2.

Activity in Mixtures Containing Horse Serum

Each antiseptic was mixed with an equal amount of horse serum, which had been sterilised by passage through a Berkefeld filter. This mixture was allowed to stand at room temperature (about 22° C.) for approximately sixty minutes. Dilutions were then made with sterile 0.85 per cent. salt solution and bactericidal activities were determined by using the same method as in the previous tests. The three strongest iodine solutions were the only ones that retained bacteria-killing power in the presence of serum. The activity of the strongest as compared with its activity in the absence of serum was unaffected, whereas with the two weaker solutions the next lower dilution was required. With the weakest iodine solution even the second lower dilution was ineffective. This suggested that the weaker the solution the greater the percentage neutralisation of the iodine by the serum. In order to confirm this observation, mixtures of equal parts of horse serum and compound solution of iodine, U. S. P., undiluted

and diluted 1:8 and 1:32, were made and the amounts of iodine in samples removed at various intervals were titrated with *N/10* sodium thiosulphate. The amount of free iodine in each at the end of an hour had decreased by 23, 58 and 85 per cent. respectively. Titrations of available chlorine in a mixture of equal parts of horse serum and one of the chlorine solutions showed a diminution of less than 50 per cent. in an hour. Bactericidal activity, however, was diminished by more than 95 per cent.

After a description (with table) of the method adopted for estimating diffusibility, the author reports that only five of the dialysates were bactericidal. The rates of diffusion of the three strongest iodine solutions, one mercury solution and one chlorine solution are compared.

Toxicity

Mixtures of 0.25 c.c. each of freshly defibrinated human blood and of different dilutions of the antiseptic solutions, prepared with Locke's solution as a diluent, were incubated in a water bath at 37° C. for exactly ten minutes. Then to each was added one drop of a heavy suspension of killed *Staphylococcus aureus*. Further details of the test and a comparison of cost are given. It was found that the toxicities of the iodine solutions were directly proportional to their iodine content. The leucocytes withstood a primary iodine concentration of about 1:1,100 for ten minutes. The iodine solution made with sodium iodide had a toxicity identical with that of compound solution of iodine, U. S. P. The chlorine solutions were extremely toxic and the mercury solutions varied from no toxicity to moderate toxicity. The miscellaneous solutions were only moderately toxic.

In his concluding comments, the author states that the bactericidal potencies are much lower than those previously reported. No reference has been found in which diffusibility and toxicity have been determined by the methods used in this paper. The method used to estimate penetration is far from ideal. One is concerned with the penetration of animal membranes, but the standardisation of such membranes seemed to be unpractical. The factors governing penetration of cell membranes are much more complex than those concerned in diffusion through collodion membranes. The superiority of iodine as an *in vitro* antiseptic is obvious. The bactericidal strength of any iodine solution is directly proportional to its free iodine content. It is the only antiseptic of the series that is potent in the presence of an equal amount of serum. It is diffusible and is not unduly toxic for human leucocytes. In dilutions that are suitable for their particular purposes it is inexpensive. It appears that even a 1:6.4 dilution of compound solution of iodine, U. S. P., is much more active *in vitro* than any of the other types of antiseptic solutions. This suggests that a 1 per cent. or even a 0.5 per cent. aqueous solution, containing the necessary amount of potassium or sodium iodide for solution, can be used to advantage in wounds and abrasions.

Curcumin in Biliary Diseases

IN a recent issue of "The Lancet" (5924,619) A. Oppenheimer gives details of clinical results obtained with curcumin, obtained from *Curcuma longa*. The author gives the earliest reference to the therapeutic use of the rhizome as that of Loeber in 1748. Medical and pharmaceutical interest in this plant was revived in 1927 by reports of successful treatment by Koch and Guttenberg in biliary diseases. Similar observations have since been published by other medical men. Dr. Oppenheimer has administered curcumin both intravenously and orally, and, for reasons given in the monograph, has restricted the administration of curcumin to those patients who did not urgently need hospital treatment. Bearing in mind the fact that a large group of biliary diseases would thus escape observation, he has used curcumin since 1933 in the treatment of sixty-seven patients suffering from sub-acute, recurrent, or chronic cholecystitis. No other medication was given. In all cases, animal fat, cabbage, sardines preserved in oil, and

mayonnaise dressings were forbidden, but no other restriction of diet was imposed, and no form of physiotherapy was used. In addition to thorough physical examination and the usual laboratory tests, Röntgen examinations were made regularly, except in the presence of severe jaundice. After a number of trials intravenous administration was abandoned, for it does not give better results than the more convenient oral method. The demonstrable mechanism underlying the clinical results consists in the passage of curcumin through the liver, and in the considerably increased flow of bile that it produces. Emptying of the gall-bladder, a less constant factor, may increase the effect. These principles apply to almost all forms of therapy known to improve or cure biliary infections. Decongestion of the liver, mechanical elimination of infectious material by the increased flow of bile, and antiseptic qualities, have been considered responsible for the therapeutic effects observed. Curcumin clearly acts similarly.

Trade Notes

LAX-VITA.—Illustrated on this page is a display stand for sales promotion in regard to Lax-Vita, which is prepared by

Lax - Vita, Ltd., 17 King Street, St. James's, London, S.W.1. The display stand is printed in red and black. Lax-Vita is issued in two sizes.



A NEW ANTISEPTIC.—James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, 3, announce the introduction of acrosone, a new antiseptic which it

is claimed promotes tissue healing. Acrosone is said to be five times more powerful than lysol, yet it is free from caustic effects. It is packed in cartons in bottles of 4, 8 and 16 oz., and in half- and one-gallon tins.

A NEW ROCHE PRODUCT.—Illustrated on this page is Citro-Thiocol cough syrup which has recently been introduced. This preparation contains as its chief ingredient Thiocol which is the potassium salt of guaiacol-sulphonic acid discovered in the Roche research laboratories. The formula is given on the label, and it is explained that this product causes neither nausea, flatulence, indigestion, nor constipation. Its indications are when cough is a permanent and distressing symptom. Inquiries are invited by Roche Products, Ltd., 51 Bowes Road, London, N.13.



ANZAC CACHETS.—In this issue the Anzac Cachets Co., Bay House, Harlesden Road, London, N.W.10, invite applications for a free sample of their product, which they state is the only container of its kind made in England. Further details are given in our advertisement pages.

INFRA-RED RAY APPARATUS.—F. W. Read & Sons, Ltd., 175-9 Gray's Inn Road, London, W.C.1, who are actual manufacturers of electro-medical apparatus, are advertising Duo-Ray infra-red ray apparatus for the treatment of rheumatism, lumbago and similar pains. Full details are given in our advertisement pages.

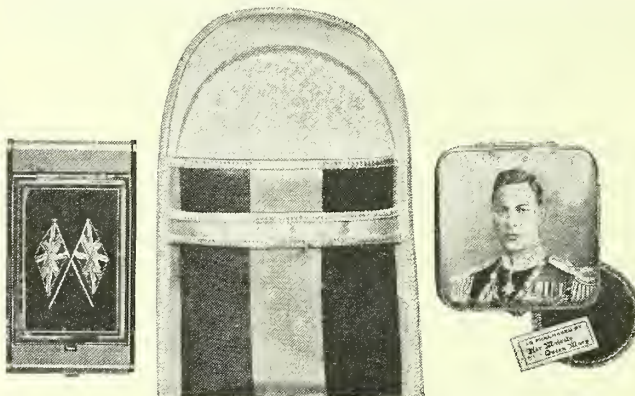
CALIFORNIAN POPPY BALLROOM SET.—Illustrated herewith is a neat pack intended to link up with an advertising campaign for Californian Poppy face powder now in progress in women's journals. The combination case is described as the Californian Poppy ballroom set and contains a standard size bottle of perfume with hinged-lid box of face powder and a tube of vanishing cream. This is an advertising offer only and stocks are limited. Early application to Proprietary Perfumes, Ltd., 35A Southwark Park Road, London, S.E.16, is therefore requested. An attractive show stand in red, yellow, green and gold suitable for window or counter display will be sent on application.



EARTHENWARE DISPENSING REQUISITES are advertised in this issue by John Lockett & Co., Longton, Stoke-on-Trent.

BONUS OFFER.—Scott & Turner, Ltd., Andrews House, Newcastle-upon-Tyne, 2, announce that they have extended their bonus offer, which was due to expire on March 31, until April 10.

AMONG MANY SPECIAL CORONATION items marketed by Burge, Warren & Ridgley, Ltd., 91 Great Saffron Hill, London, E.C.1, are the miniature flapjacks and puff envelope shown in the



accompanying illustration. At the left is a spring lid container for powder containing miniature puff and mirror; at the centre is a fabric envelope with red, white and blue stripes containing wool puff; and at the right is a flapjack carrying a portrait of the King in full colour.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1937, p. 338.

(From "The Trade Marks Journal," March 10, 1937.)

"IRIUM"; for photographic chemicals (1). By The Pepsodent Co., 919 North Michigan Avenue, Chicago, U.S.A. 574,298.

"PEDIGREE"; for all goods (1). By R. J. Hamer & Sons, Ltd., 2 Miles Road, Mitcham, Surrey. 574,892.

"TRIOSOL"; for medicated preparations for birds (2). By Triosol Société de Personnes, La Roseraie, Sauvenière, Belgium. 572,563.

"KYLEMAL"; "TONY"; for veterinary preparations for worms in sheep and lambs; for medicated veterinary preparation (2). By W. Gregory & Co., Ltd., 31 Fore Street, Wellington, Somerset. B573,400/574,220.

"CHRYSAETHIE"; for fertilisers (2). By The Ichthemic Guano Co., Ltd., The Chemical Works, Stowmarket, Suffolk. 574,691.

Label designs; for veterinary preparations (2). By F. Hewthorn & Co., Ltd., Cook's Road, Stratford, London, E.15. B574,458/462/463.

"VI-TABS"; for medicated tablets for use as tonic (3). By Knox Laboratories, Ltd., 81 Lamb's Conduit Street, London, W.C.1. 571,595.

"KALRAPID"; for medicinal chemicals (3). By Dr. H. Remmler A.-G., 38 Anklamer Strasse, Berlin. 573,827.

"GENIK"; for medicated laxative confectionery (3). By Crystal Confectionery Co., Ltd., 2 Evelyn Street, Deptford, London, S.E.8. 574,579.

"DACORENE"; for medicinal chemicals (3). By May & Baker, Ltd., 42 St. Paul's Churchyard, London, E.C.4. 574,660.

"CODYL"; "ACEDICON"; "LOBESYM"; "LOBETON"; for medicinal chemicals (3). By C. H. Boehringer A.-G., Bingerstrasse 173, Nieder-Ingelheim A. Rhein, Germany. 574,773/774-574,775/776. (Associated.)

"BRIGHTOMEL"; for medicinal chemicals (3). By R. G. Davies, 21 George Street, Pontypool, Mon. 574,921.

"ANTICIPATION"; "ABIENTOT"; for perfumery, etc. (48). By Lenthéric, S.A., 245 Rue St. Honoré, Paris. 574,379/380.

Marriages

CLARKE—BORTHWICK.—At University Chapel, Glasgow, on March 18, George B. Marshall Clarke, M.B., Ch.B., chemist and druggist, to Margaret Borthwick.

ROPER—LARCOMBE.—At Leominster, on March 29, F. J. Roper, M.P.S., West Street, son of Mr. F. T. Roper, M.P.S., Kington, grandson of the late Mr. T. H. Roper, chemist, Newent, and great-grandson of the late Mr. F. Roper, chemist, Ross-on-Wye, to Freda E. Larcombe, Bargates, Leominster.

Deaths

ADDISON.—Recently, Mr. Charles Samuel Addison, chemist and druggist, 48 Chase Side, London, N.14. Mr. Addison qualified in 1890.

EVANS.—Recently, Mr. Frederick Watkins Evans, Ph.C., Cwmfelinfach, Mon., aged fifty-six.

MILLIGAN.—Recently, Mr. William Milligan, chemist and druggist, Southcroft, Mumbles, aged sixty-eight.

MOORE-CARDWELL.—Recently, Mr. Francis Moore-Cardwell, Ph.C. (Cardwell & Son, Ltd.), 98 Commercial Street, Brighouse, Yorkshire, aged seventy-three.

NICOL.—Recently, Mr. Thomas Nicol, chemist and druggist, 645 Fulham Road, London, S.W.6, aged sixty-four.

ROBINSON.—On March 10, Mr. Leonard Robinson, chemist and druggist, 58 Brunswick Street, Nelson, aged thirty-five.

WALKER.—At Prestwick, on March 20, Mr. James Donaldson Walker, retired chemist and druggist, late of High Street, Peebles. Mr. Walker qualified in 1895.

WILKES.—Recently, Mr. Thomas James Wilkes, chemist and druggist, 5 Institute Road, Swanage, aged seventy-one.

Recent Wills

MR. FREDERICK GREEN, "The Grove," East Herrington, Durham, managing director of F. Green, Ltd., chemists, who died on December 30 last, left £4,273, with net personalty £1,906.

MR. HENRY JAMES AUBREY, "Roseneath," Malvern Road, Worcester, chemist and druggist, who died on January 30, aged seventy-two, left estate gross value £1,133, with net personalty £1,037.

MR. ERNEST WILLIAM MOSS, of 121 Newmarket Road, Cambridge, chemist, who died at Earls Colne, Essex, on August 30 last, aged sixty-five, left £7,788, with net personalty £4,316.

MR. THOMAS MANNOCK, 19 Paulton Avenue, Accrington, Lancs, chemist and druggist, who died intestate on September 1 last, aged forty-six, left £2,748, with net personalty £2,669.

MR. JOHN ROBINS, 25 Upperton Gardens, Eastbourne, Sussex, for forty-five years with the Fullers Earth Union, Ltd., who died on January 9 last, left £13,523, with net personalty £13,228.

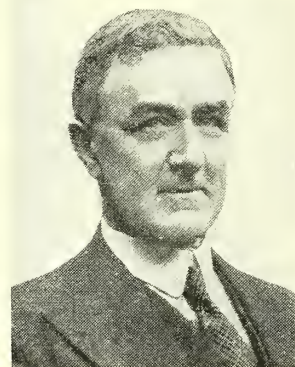
MR. WALTER NEWBY, Brodrick Lodge, Hampton-in-Arden, Warwickshire, chemist and druggist, who died on November 1 last, aged sixty, left £9,685 18s. 10d., with net personalty £9,540 8s. 4d.

MR. THOMAS KERFOOT, J.P., Springwood Hall, Bardsley, Lancs, founder and chairman of Thomas Kerfoot & Co., Ltd., manufacturing chemists, died on December 30 last, aged ninety-six, leaving £36,635, with net personalty £36,130.

MR. CHARLES FREDERICK POOLE, Westfields, Sandbach, formerly a director of Brunner Mond & Co., Ltd., and at one time a director of Buxton Lime Firms, who died on November 11 last, aged seventy-three, left £36,945, with net personalty £32,521.

Personalities

MEMBERS of the North-East Lancashire Branch of the Pharmaceutical Society are about to show their recognition of the valuable services rendered by their secretary, Mr. Fred Law, over a long term of years. Mr. Law has acted for the Branch since its formation in 1922, and has officiated in a similar capacity for the Blackburn and District Chemists' Association for a much longer term. Pressure of other duties compels him to relinquish the secretaryship of the Branch, and at the recent meeting striking tributes were paid to his painstaking work. In addition to undertaking the secretarial work, Mr. Law has always been ready to promote such events as excursions and dinners for the benefit of the members. Mr. Law will continue to act for the Association. (See p. 386.)



MR. FRED LAW

MR. K. BULLOCK, Ph.D., M.Sc., F.I.C., Ph.C., who has been appointed Lecturer in Pharmacy at Manchester University, graduated with first-class honours in the Honours School of Chemistry, Manchester University, in 1923, and was awarded the degrees of M.Sc. and Ph.D. for theses on the chemical constituents of valerian rhizome. Dr. Bullock served his apprenticeship to pharmacy at the Royal Infirmary, Manchester, and also gained retail experience. He was for six years research chemist for Benger's Food, Ltd., and was appointed assistant lecturer in the Pharmacy Department of the University in 1931. He passed the F.I.C., Branch E (Foods and Drugs) examination in 1935. Dr. Bullock has contributed several papers to the British Pharmaceutical Conference in such subjects as the chemistry of valerian rhizome, the assay and examination of commercial pepsins and chemical examination of desiccated hog's stomach preparations.



DR. K. BULLOCK

Coming Events

Tuesday, April 6

Manchester Pharmaceutical Association, Junior Section Tennis Club, Houldsworth Hall, Deansgate, Manchester, at 8.30 p.m. Annual meeting.

South-Eastern (London) Chemists' Association. Mr. Arthur Mortimer, barrister-at-law, on "Common-Sense Law for Pharmacists."

Wednesday, April 7

Western (Landon) Pharmacists' Association, Stewart's Restaurant, 50 Old Bond Street, W.1, at 8.30 p.m. Joint meeting with Photographic Dealers' Association Branch. Lecture by Mr. J. E. Saunders on "Snapshotters' Blunders and the Way to Cure Them."

Pharmaceutical Society, Anglesey, North Carnarvonshire and Colwyn Bay Branch, Imperial Hotel, Colwyn Bay, 7.30 p.m. to 1 a.m. Annual dinner and dance. Tickets 7s. 6d. each (apprentices 5s. each).

Wimbledan and District Pharmacists' Association and Branches, Wimbledon Hill Hotel, S.W.19. Dinner and dance. Reception 6.30 p.m. Tickets 7s. 6d. each single, 14s. double.

Thursday, April 8

Manchester Pharmaceutical Association and Branch, Victoria Hotel, Deansgate, Manchester, at 8.30 p.m. Annual meeting.

Pharmaceutical Society, Reading and District Branch, Great Western Hotel, Reading, at 8 p.m. Mr. A. H. Macself (Potter & Clarke, Ltd.) on "Pharmaceutical Processes on a Manufacturing Scale."

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HP 2

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/23 Banana flour.	W/30 Redpath's cat medicines.
F/31 French's worm capsules for dogs.	W/30 Tinker's bronchitis mixt.
H/31 Lonza patent transparent drinking straws.	A/25 Vibron.
M/31 Lustress dental plate brushes.	S/24 Vitex hair tonic.
	W/30 Yeastfoam

THE CHEMIST AND DRUGGIST

VOL. CXXVI.

April 3, 1937

NO. 2982

"Black Coats" Obtain Recognition

A BILL to extend the scope of widows', orphans' and old age contributory pensions was presented to the House of Commons by Sir Kingsley Wood, the Minister of Health, last week. The scheme has had what is described as a good press, and in addition the Minister of Health has spoken before the camera so that a news reel of the advantages of this scheme could be given the widest possible publicity. Voluntary insurance is now made available to persons, whether working on their own account or as employees, whose total income when entering into insurance is not over £400 a year, or in the case of women not over £250. Ordinarily, the age limit for entry into the scheme is forty, but admission will be open for twelve months for those whose age does not exceed fifty-five. The weekly rate of contribution is 1s. 3d. for men and 6d. for women. This refers to the first year of entry, and after this period contributions will vary with the age of entry up to a maximum of 2s. 11d. weekly for a man aged forty. It is estimated that about 2,000,000 persons will be entitled to enter the scheme, but it is not possible, of course, to gauge the percentage of actual entrants.

This scheme will no doubt commend itself to many chemists in business for themselves or as employees, especially since, provided the income of the entrant at the time of joining the scheme is not over £400, this limit does not apply afterwards. Briefly, the scheme applies to men and women who (1) have lived in this country ten years before applying; (2) do not come under the present State insurance scheme; and (3) are within the age limit. Those who enter the scheme after the first year will pay the appropriate rates applicable to their age at entry, which are set out in the following schedule to the Bill:—

MEN			WOMEN		
Age next birthday at date of entry not exceeding	Weekly rate of contribution s. d.		Age next birthday at date of entry not exceeding	Weekly rate of contribution d.	
21	1	3	25	6	
22	1	4	30	7	
23	1	4	35	8	
24	1	5	37	9	
25	1	6	38	10	
26	1	7	40	11	
27	1	8			
28	1	9			
29	1	10			
30	1	11			
31	2	0			
32	2	1			
33	2	2			
34	2	3			
35	2	4			
36	2	5			
37	2	6			
38	2	7			
39	2	9			
40	2	11			

While no one can cavil at such a scheme to make even a small provision for a deserving class of the community,

and one which unfortunately has no powerful trade union to back up its demands, yet it is difficult for a pharmacist to view with satisfaction the launching of yet another plan for social improvement while he himself is ignored so far as adequate remuneration for his services in the scheme of public welfare is concerned. There is, of course, no indication that national health insurance will be extended beyond the present limits, but it would be foolish indeed to consider such a procedure unlikely. The State control of medical services is considered in some directions as a fantastic and unworkable idea; but it is only necessary to recall the fact that when the first National Health Insurance scheme was launched in this country, there was a volume of protest which would undoubtedly have destroyed any scheme which was lacking in the vigour of the original one. If the same degree of publicity was given to the arrangement whereby the chemist has to subsidise the medicine of the nation as has been given to the work of social services, it would perhaps cause no small sensation in the minds of the public, who believe that the chemist is especially favoured in regard to this so-called monopoly. Any extension of the scheme of providing medicine for insured persons must in the interests of pharmacists be carefully watched. It may not be common knowledge that attempts have been made in certain districts of London to inaugurate a public health service on a certain financial basis—the doctor prescribing and the chemist dispensing. We have good reason to believe, however, that the schemes have shown the utter impossibility of dispensing on present rates ever being made a profitable proposition, and if we are not mistaken the schemes have been or will be abandoned.

Modern Dispensing Departments

THOUGH the plaster iron has passed and the carboy has often degenerated into a thin outline of neon tubing, the process of evolution seems to be proceeding in a positive direction in regard to dispensing departments. In this issue we devote several pages to a review of dispensary design, especially by way of comparing present tendencies with past procedures, and to the apparatus and equipment available for fitting out a modern dispensing department. The claim has frequently been made that a pharmaceutical apprenticeship is of immense value in developing an inquiring spirit in regard to everyday practical problems. Ample evidence of this is to be found in the story of the modern dispensing counter. In these pages are presented the practices of four distinct periods—1870, when the C. & D. offered cash prizes in a competition for the best design of a dispensing counter; 1901, when doubt was still expressed in some quarters as to whether a special counter for dispensing was altogether desirable; 1923, when, after a decade of experience of National Health Insurance dispensing, a contributor outlined his suggestions to meet differences between private and State-controlled dispensing; and the present time, when, if there are no recent great changes in this country, there are interesting and potentially important developments in the United States.

In spite of Acts and Rules that may have profoundly altered the nature of a chemist's business, the dispensing department remains and seems likely to remain its nerve-centre. It may or may not pay, *per se*. But there are two reasons why it will continue not only to exist but actually to develop. The first is that the pharmacist who

spends so much time, effort and expense in qualifying needs his dispensary as a base from which he can adventure into the enterprises that will, or may, bring him profit and success. To it he must be able, if necessary, to withdraw. Secondly, the dispensing department seems likely to become more than ever the emblem of something the chemist possesses that is not the property of other traders; even though those traders sell many—even a growing number—of similar goods and preparations. It is rash to prophesy in this sphere, but the factor of symbolism may very well lead to wider adoption of the open or visible type of dispensing "screen." Such a screen ought to serve to convince those who are at present sceptical of the importance of the chemist's training that there is an art of dispensing, that it is not an art which is acquired easily, and that the dispenser who can compound complicated mixtures is better able to sell medicines intelligently than a trader lacking his training. This view-point is evidently shared by one of our contributors who describes and illustrates a type of "semi-visible" dispensing screen that is proving popular to-day. Through this screen the customer can see the dispenser at work, while the actual labels of the bottles are hidden from his view. Coming from fittings to apparatus, we see again from the number of improvements that have been quite recently introduced that dispensing continues to be a live subject calling for the ingenuity of the trained pharmacist. For example, greater attention has been paid to the design and usefulness of sterilising apparatus. A small water still, designed by pharmacists for use in the pharmacy, was being recommended at the Physical Society's exhibition of scientific apparatus (*C. & D.*, Feb. 9, p. 41), for general laboratory work. A recent evening meeting of the Pharmaceutical Society was devoted to the subject of pharmaceutical apparatus in stainless steel, while, some twelve months earlier (*C. & D.*, 1936, I, 258), an informative and well-illustrated article on the same subject appeared in the columns of this paper. Whatever the future has in store, it is safe to predict that the position will be one of constant change.

Advance in Tartaric Products

WHILE the recent increases in quotations for these materials may to some extent be due to the general movement of commodity prices to higher levels, the political position in the southern Continental countries from which the raw material and, of course, supplies of the manufactured products, are derived, is the main reason for the stronger markets. Supplies of the basic materials, argols and wine lees, for the use of the home manufacturers have, in normal times, been drawn from Spain, Italy and France, with the shipments to this country rather more than 2,000 tons a year. Practically nothing has been coming in from Spain for some time, although shipments of tartaric acid from that source have recently improved. Clearing House and other difficulties have seriously interfered with shipments from Italy, and, while supplies, in restricted quantities, have continued to be available from France, the prices required are now sharply dearer. Up to February 20, tartaric acid was quoted at 11½d. per lb. and cream of tartar at 79s. per cwt., less the usual discounts. Tartaric then advanced 1d. per lb. and cream of tartar 5s. per cwt.; further advances to 1s. 1½d. per lb. and 87s. per cwt., respectively, are now recorded. The European manufacturers of these products appear to work in harmony as regards movements in sales prices, and in the current

instances the increases have been generally applied. The future of these important markets will largely depend on political developments, particularly in the case of Spain. Even under prevailing conditions a reaction in the market values is distinctly unlikely. It is of interest to note that, so far, there has been no price movement in citric acid, which, in the opening months of the year, was fractionally dearer than tartaric acid, at 1s. per lb., less 5 per cent. discount. Now tartaric acid is at a premium of over a penny a pound. The sales values of the two acids usually run very close together, and for many purposes the one can be used as a substitute for the other. Consumers who have the choice of the two products will naturally favour the cheaper; on the other hand the manufacturers of citric acid, now produced in this country by fermentation process, may find it necessary to bring the sales prices of the two acids into line.

At Brewster Sessions

WE notice that "The Morning Advertiser" has again been fulminating in its best style against chemists. We take the following four statements from its issue of March 16:—

The Justices do not like chemist shops being turned into wine shops. They disapprove of anyone being able to go to the chemist and there get a bottle or half-bottle of any wine he likes.

The Justices as a general rule are reluctant to refuse to allow a chemist to sell what it is quite usual to speak of as medicated wines. But the only licence they can grant him is a wine licence. . . .

What the chemists want to sell are not medicines (for which no licence is necessary), but what they call medicated wines, which must for all practical purposes be accounted beverages, and can only be sold under a wine licence.

There is no definition of "medicated," no sort of description of the nature or degree of medication which will exclude the compound from the category of wine.

As to the first and second of these statements, if a justice of the peace cannot reconcile his magisterial duties with his conscience, his most honourable course is to resign from the bench. As to the third and fourth paragraphs, the Board of Customs and Excise has for many years past issued standards and conditions of sale for certain medicated wines. The position has been rendered less simple by a High Court decision in consequence of which a chemist may be convicted of an offence if he sells without holding a justices' licence a liquor which, though medicated, can still be described as a wine. In addition to purely legal considerations, however, it has to be remembered that chemists must meet the requirements of their own districts.

Organic Thermochemistry

THE second report of the Permanent Commission of Thermochemistry has just been published. It is true that it does not contain much of direct interest to pharmacists; but there are principles of organic chemistry of such importance dealt with that it should be brought to the notice of all who follow modern developments of organic chemistry. The heat of combustion of those organic compounds which contain only carbon, hydrogen, oxygen and nitrogen has been determined according to principles which do not differ from those laid down by Berthelot when he devised the calorimetric bomb. But, of course, details of technique have improved. The object of the present report is to give—temporarily and in an advisory capacity—a good deal of fresh information as to the methods for similar determinations for compounds which contain sulphur or halogens. These determinations are not nearly so easy to deal with as are those of compounds containing only carbon, hydrogen, oxygen and nitrogen; the difficulties are to some extent explained and methods of overcoming them given. But considerable further investigation is necessary. There are, also, a number of determinations required for substances containing boron, phosphorus, arsenic, antimony and others. The translation of this report from German into English and French has been exceptionally well done.

Changing Ideas on Dispensaries

IN the year 1870 a prize competition was instituted by THE CHEMIST AND DRUGGIST for the best design for a dispensing-counter. The judges were Thomas Hyde Hills, Charles H. Savory and Joseph Ince—"as perfect a representation of gentlemen who know what practical dispensing is as it would be possible to obtain." The winning design, which is reproduced on this page, was presented as a full-page lithograph with the September 15 issue of that year; it was forwarded later for exhibition at the British Pharmaceutical Conference (which, by the way, was at Liverpool, scene of this year's Conference); and returned later to the office of the C. & D. for "as long as our friends the designers will allow us to retain the drawings."

The winning competitor entered under the motto "Better late than never," and of his design the examiners reported: "This design has several points of excellence, besides being the best arranged and most convenient as a dispensing-counter. It is handsome in appearance, without being showy." It would be unfair to consider the design without its key, which is here repeated:—

1, Rack for Spatulas, etc.; 2, Pewter Strainer for Measures, etc.; 3-5, Drawers; 6, Gas Furnace; 7, Retort and Funnel Support; 8, Recess for Scales; 9, Glass Fronted Cupboard for Poisons; 10, Ointment Slab; 11, Pill Machine; 12, Pill Machine Roller; 13, Cork Presser; 14, 15, Corks; 16, 17, Paper; 18-23, Labels; 24-27, Recesses for Books; 28, Paper Drawer; 29-33, Drawers for varied purposes; 34-38 Drawers for Bottles; 39, Towel Rack; 40-42, Spaces for Mortars, etc.; 43, Tin Rack for five essential oils required in pill-making, in half-ounce stoppered bottles. One thing is apparent that deserves mention in these days of arguments for and against "visible" dispensing. The designer was thinking not of secrecy but only of convenient arrangement for efficient working.

Thirty Years Later

THE CHEMIST AND DRUGGIST did not lose interest in dispensary design. In particular, the subject was dealt with at length in January 1901, when a sixteen-page article appeared, lavishly illustrated by contemporary standards. After dealing with the importance of being able to speak intelligently on medical and scientific matters, the writer went on:—

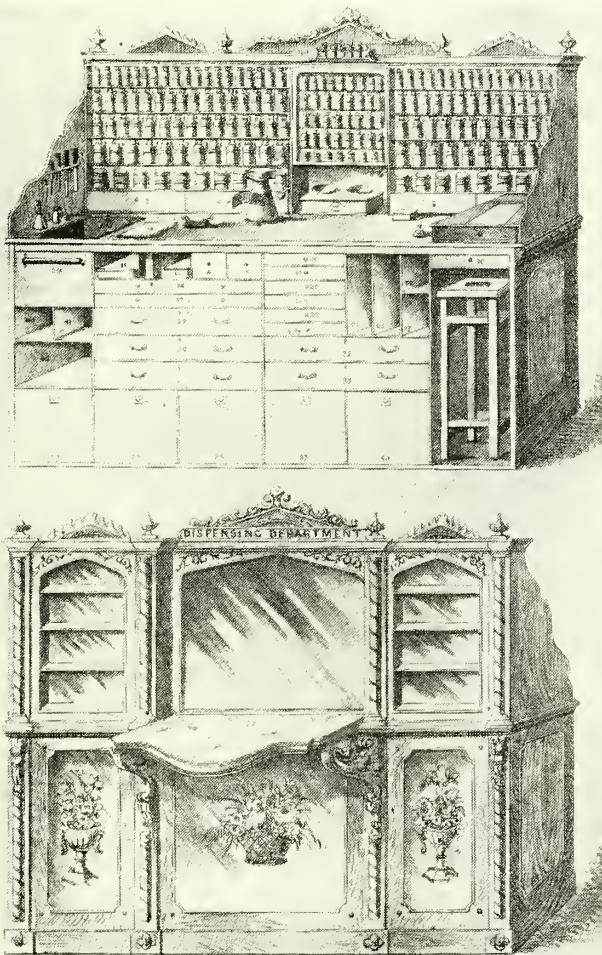
"The focus of the varied equipment for the cultivation of this kind of business is on the dispensing-counter. Now, it is open to question whether a special counter is altogether a blessing. It will be noted from the descriptions of establishments which we have visited that in some of the most famous pharmacies dispensing is done in full view of the customer; and in others the reserved department is really an isolated portion of the pharmacy, where the retail condi-

tions as to bottles and fixtures more or less apply. In smaller shops the isolated portion becomes a dispensing-counter, limited as to shelf-room, so the bottles are small and the labels written and gummed on. The dispensing-counter cannot usually be reserved exclusively for dispensing; it is a convenient place to do many little bits of work. The man who desires to cultivate a connexion with doctors will, of course, take care that one bit of work will be uninteresting, but it is better to do operations like that in the back shop (if there is one), and even to carry out there Mr. Barnard Proctor's injunctions as to the testing of chemicals with such materials and appliances as are in common use at the dispensing-counter."

A Twentieth Century Design

The competition already mentioned was recapitulated, and the statement followed: "The foregoing description of a counter might stand for the work of the twentieth century, except for the fact that the space devoted to plasters would be so much lost. We happen, however, to have another design and description fresh from pencil and pen of a young pharmacist who was in long clothes when the foregoing was published, and we cannot do better than print them as a contrast." Here followed the description, from which the following extracts, some of which might almost have been written yesterday, are taken. One of the most important problems which modern competition compels us to study is that of combining efficiency with dispatch. Good workmanship is essential to success, but time is money. The retail trader may save the valuable time of himself and his employees by having his shop and stock arranged in the most convenient manner intelligent study can suggest. The skilled worker, performing dozens of different operations and handling hundreds of different articles in a day, should have everything he requires within easy reach, and should be efficiently assisted, if necessary, by other workers whose time is of less value than his own. At the dispensing-counter trifling economies of time must not be neglected. The advantages of being able to dispose of work rapidly are two-fold—firstly,

economy in the time saved and, secondly, the possibility of dealing with increased business without haste and confusion. The position and size of the dispensing-counter and the space allotted to extempore pharmacy are dependent upon the shape, dimensions, etc., of the shop. With regard to position, the following points should be observed as far as possible:—Plenty of daylight is conducive to clean work and minimises the risk of errors. There should be no thoroughfare behind the dispensing-counter—that is, it should not be necessary to pass it in going from the shop to the house or cellar. The apprentices should not be putting up stock nor the porter washing bottles close to the dispenser. A position should be



THE CHEMIST & DRUGGIST. PRIZE DISPENSING COUNTER. Motto—"Better late than never."
Designed by J. P. K. Jones, Baker's Street, Birmingham, London, E.C.

Prizewinning design in "C. & D." Dispensing-counter competition, 1870.

chosen which makes it impossible for customers to mistake the dispensing for the serving counter.

Most ready-made counters are from six to eight feet long, but nine feet is a more suitable length. The breadth, exclusive of display-cases in front, should be twenty-four inches, and the height thirty-four inches (floor to counter). It is desirable that the dispenser should be able to see into the shop; but arrangements must be made to prevent customers engaging him in conversation. The dispensing-screen should be five feet high and a row of glass show-jars eight or ten inches in height may be placed upon the top of it about three inches apart.

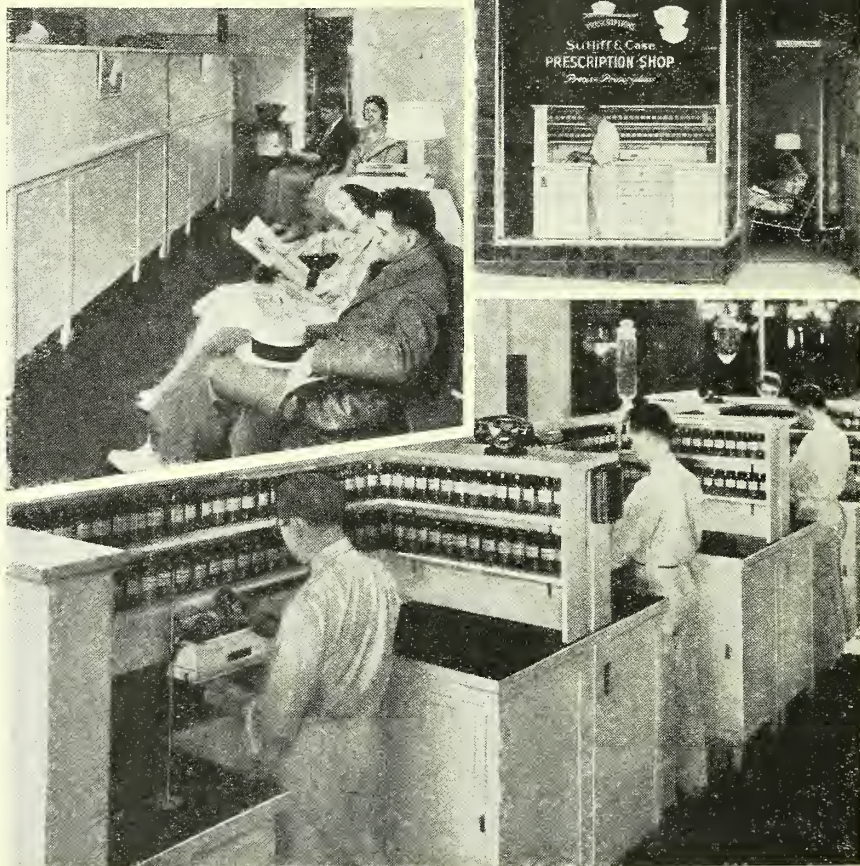
The desk and counter-top must either be of polished mahogany or other hard wood, all other parts of good seasoned deal. Ordinary pine not only wears badly, but is more destructive to books and clothes than hard polished woods; for the same reason rounded edges and corners are preferable to sharp ones. Lastly, it takes about one minute per dozen longer to wrap powders on varnished deal than on polished mahogany. Behind the dispensing-counter wall-space must be found for cupboards to contain mixture, gargle, lotion, boxwood-top cork, stoppered, plain, and poison bottles and covered pots. Keeping large bottles in drawers is a noisy and clumsy arrangement; pots kept in drawers roll or slide about and break. Lockers, especially those with small doors, accumulate dust and harbour mice. The use of a cupboard should be settled before it is made, and definite instructions as to shelves and partitions given. The same rule applies to shelving; decide what bottles will be most suitable for your purpose, measure one, and give orders accordingly. Cupboards with double doors, one of which cannot be opened without first opening the other, should be avoided. Patent fasteners that get out of order, and drawer and cupboard handles which tear the clothes and fingers, are a nuisance. The poison cupboard should have the preference with regard to good light; and it should be so placed that the two or three lowest shelves should be about level with the dispenser's face.

Changes under N.H.I.

In 1912 a contributor described how he had altered his dispensing-counter so as to let him do (in his busiest hour at night) "at least ten to twelve bottles of medicine for club patients" in a semi-private part of the shop, from which the dispensing-counter could be seen. He provided a diagrammatic sketch of the installation, an elaborate, complicated structure, which included a swing mirror that could be shut when the dispensary was not in use, but the plan was not generally adopted and seems designed to meet conditions which might have been expected to result under the National Health Insurance Act of that year, but did not in fact turn out quite as the writer anticipated. There was a return to the subject in 1923, when a contributor made suggestions for modifying a style of dispensary design which he regarded as being adapted to private dispensing, in order to ensure a maximum of efficiency in National Health Insurance work. He took it as axiomatic that the dispenser should be able to deal with the maximum number of scripts without moving from his place. The chief exception to this was the placing of the sink at a side bench in order to avoid splashing on the dispensing-counter itself, and also to avoid the possibility that articles might fall or be accidentally pushed from the counter into the sink. The 2-ft. desk was placed at the left end of the counter. Both of these considerations are put into effect in most dispensaries to-day. A label drawer below the desk, instead of below the working counter, was recommended; this suggestion has not been so generally adopted, it may be observed. The reason given, the danger of liquids running

into the drawer, is perhaps more potential than actual, since the counter is presumably impervious and the drawer usually kept closed. On the other hand, it conflicts with the principle of having everything accessible without moving away from one spot.

The one other occasion when the dispensary came into the prominence of a long article in the *C. & D.* was in February 1929, when illustrations were given of three handsome dispensing departments. By this time, however, interest had apparently departed from the arrangement of the working parts, and the de-



A prescription shop separate from and adjoining drug store, Sutcliffe & Case Co., Inc., Peoria, Illinois, U.S.A. Top left, the waiting room; top right, the shop front; below, some of the benches.

scriptive matter dealt almost entirely with the appearance of the dispensing screen to the customer. A feature worth mentioning, however, was the provision of a special D.D.A. cupboard.

A U.S. Innovation

These ideas must have had a considerable influence on the design of dispensing-counters, with the result that subsequent changes were few and minor. A development in the United States, where the pharmacies are popularly regarded on this side of the Atlantic as glorified soda-fountains, is the complete separation of the dispensing department from all other departments in the business. This has been carried out by the Sutcliffe & Case Co., Peoria, Illinois, and possibly others. Separation went to the length of opening an entirely new shop next door to the main premises. This was divided into a comfortable waiting room and a row of dispensing benches, one of them actually in the shop window. Whether the innovation is likely to be followed in this country, or even in the country of origin, it is impossible to say, but there are circumstances connected with recent legislation which seem to predict a gradual change of emphasis in regard to the dispensing department.

The Modern Dispensary

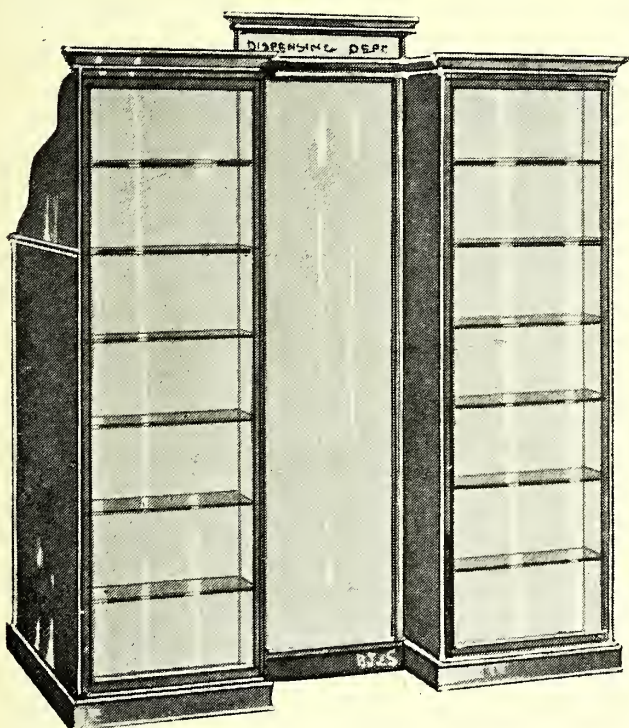
By "Ubique"

THE writer, who perhaps visits more pharmacies in a week than the average person sees in a year, has been struck with the lack of interest shown by the chemist in the lay-out of his dispensing department. This may be due to the neglect of the chemist's right to dispense. Yet a further cause may be that insufficient thought is given to shop-fitting.

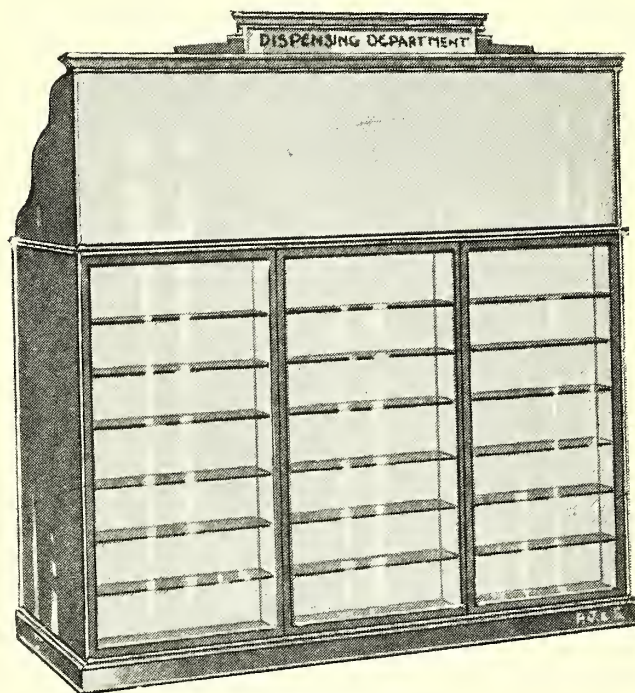
Why a Screen?

Consider for a moment the actual words "dispensing screen"; a screen behind which the dispensing is done. Why a screen? The writer has asked this question times without number and has never yet met with a satisfactory reply. The usual answer is, "Oh, well, we've got to have one somewhere," which, though illuminating, is scarcely to the point; and so in comes the old stereotyped showcase-cum-mirror complete with bench, shelves and drawers behind and everything delightfully hidden from the customers' view. What happens? A package is hastily undone, a surreptitious cigarette is laid down whilst serving, a host of accumulated scripts and invoices lie about waiting for filing—everything goes behind the

shadow of doubt that such details appeal to the public far more than rows of strictly utilitarian patents or English names. So with the chemist's dispensary—why not let the public see what he is doing? They have been, and are being, educated to hygiene and cleanliness and are impressed when their own prescriptions are dealt with clearly and openly. "Surely if the



Dispensing Screen — old style



Dispensing Screen — new style

chemist has nothing to hide he must be good," is the reasoning. Again, the sight of anyone working has always an attraction of its own (witness a crowd which always gathers round even navvies working in a road) and the modern type of dispensing screen is designed to take advantage of these tendencies.

A "Semi-visible" Screen

Briefly, the lower part in front, to a height of some four feet, is the usual shallow showcase fitted with adjustable shelves for the display of small toilets and patents. Above this is a narrow frame some two feet high, glazed with clear plate glass surmounted by a narrow pediment overall written "Dispensary" or "Dispensing Department." At the back are the usual compounding counter, drawers and shelving. Thus, the bench, which is at the usual height of three feet, is a foot below the sight line of the clear glass front which, though it enables the dispenser to see all that is going on in the shop (ideal especially for one-man pharmacies), keeps the actual working bench out of the customer's view, while allowing a good general sight of the act of dispensing. The writer advocates, in order to have everything in keeping, that the dispenser should wear a white coat and that there should be a strong low light giving a floodlight effect. He has recommended this fixture to many chemists and has yet to meet one who has had adverse criticism to make after a fair trial. Being open it must, of course, be kept clean and tidy. The fitment is light, convenient to the chemist, and impressive to the customer.

dispensing screen, out of sight of the customer. And so it goes on until it becomes a habit. The writer never forgets how, in the course of conversation at a suburban bridge party, a lady told him she had changed her chemist because, whilst waiting in his shop on the quiet of an evening of his early closing day, she wandered round the shop and finally looked behind his screen to watch him making her medicine! The chemist lost what was probably a good customer and, even now, may have no suspicion of the reason. What is the modern and better arrangement? If it is realised that the chemist is regarded in at least a semi-professional light by the majority of his customers it will be appreciated that the more he can bring this professional aspect to the front the better it will be for him. Chemists do not always sufficiently realise the value of the little things, such as the Latin names on drug drawer labels, which impart a slight air of mystery and erudition. There is no

FOIRE DE PARIS.—An inventions competition is announced in connexion with the Foire de Paris of May 15-31 next. Particulars may be obtained from the office for Great Britain, 17 Tothill Street, London, S.W.1.

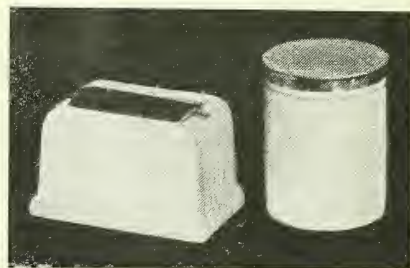
Equipping the Dispensary



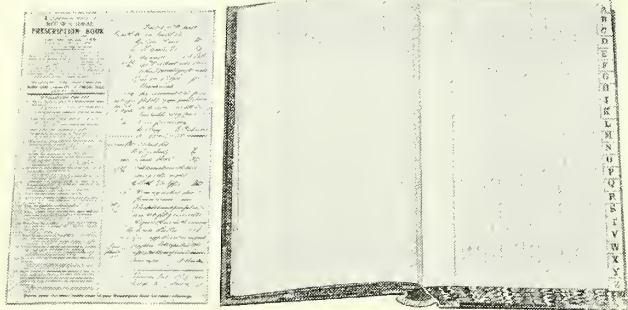
(1).—A compact set of dispensing instruments by S. Maw, Son & Sons, Ltd.

Recent tendencies in dispensary equipment have been in the same general direction as modern shopfitting and furnishing design, if less pronounced. This is understandable. The dispensing department is not the most profitable in the average business and therefore undergoes a slower evolution than the more prosperous departments. But there is every reason, especially in new businesses, why advantage should be taken of such advances as have been effected. Labour (and therefore cost) saving should be the aim. Fitments for dispensing bottles, for example, can to some extent be "made to measure." One most satisfactory arrangement has been that bottles are stacked one upon the other, face to face, in a single vertical row, separated by a wooden partition from the next stack and with the back adjusted to the length of the bottle and frequency of use. Of course, this cannot be accurately foretold. Not absolute accuracy but fair approximation is required. Obviously more eight-ounce bottles than one-ounce phials will be used, and the spaces allotted to each should vary accordingly. The chemist can profitably make a rough sketch for the shopfitter showing how he would like his partitions arranged. A refinement is for the divisions to be rubber-lined. Measures are worth a special fitment. Instead of

and reaching down to pick up the wax is eliminated. The choice of a label damper is another apparently trivial matter that repays care. Illustrated on this page (Fig. 3) is an apparatus from S. Maw, Son & Sons, Ltd., Aldersgate Street, London, E.C.1, that is simple, clean, compact, pleasing in appearance and thoroughly effective. Recently, in a broadcast talk, a speaker on domestic problems recommended husbands to turn their minds to a little "industrial psychology" in the kitchen, to discover if by any means the labour of running the home could be reduced for their women-folk. The advice was sound, and no less applicable in the dispensary than in the kitchen. The chemist, not the shopfitter, is obviously the man from whom improvements must originate, and every dispenser must on occasion have found fault with existing dispensaries or begrudged time on dispensing operations which could be shortened with a little forethought in equipping the dispensary. Similar considerations apply to replaceable items. The best dispensaries of to-day present an orderly appearance, mainly on account of the uniform stock bottles adopted. Good, serviceable and attractive bottles for the dispensary are perhaps more readily obtainable to-day, and there is not the same readiness to make do with a miscellaneous assortment of makers' originals. On the next page are illustrated ideal types of dispensary containers supplied by Beaton, Clark & Co., Ltd., Rotherham. The section is rectangular, not circular, and the label is upon the edge of the bottle, deeply etched and filled in with white enamel. The result is that many more bottles can be accommodated in a given length of shelf than if rounds of equivalent capacity were used. The purpose, it need hardly be said, is not economy of space so much as economy of movement on the part of the dispenser, who is able to reach many more bottles without stirring from one position. The dispensing flats described are made in three sizes: 4 oz., 6 oz. and 8 oz. There are wide-necked for powders and crystals and actinic green ribbed bottles for poisons, all with ground-glass stoppers. Bottles of these capacities are hardly practicable for oils and syrups, for which rounds with special tops are more suitable. A shop round for oils in which surplus returns to bulk under cover of a glass dome, ground to fit; and another for spirits, from the stopper of which loss by evaporation is almost wholly prevented, are illustrated. In the design of ointment jars there have been no great changes, but the modern note of simplicity and economy of space is exemplified in the jar illustrated, with its deeply-cut label filled with black enamel prior

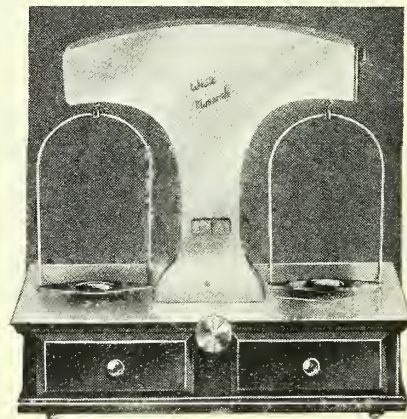


(3).—Left, Label damper by S. Maw, Son & Sons, Ltd. Right, Aluminium-capped ointment pot by John Lockett & Co.



(2).—Two-column prescription book and specimen page by Rouse Bros. (London), Ltd.

being kept about on a shelf to invite casualties, they can be kept not only safe but dry and clean. The plated wire measure rack illustrated on the next page is an example of the way in which measures can be stored with economy of space and the greatest convenience in use. The traditional label drawer, which requires to be opened and shut for every fresh label taken out, necessitates operations which can perhaps be eliminated. A label fitment has been designed from which the label is drawn out from below, the bulk being kept in position in an orderly stack by means of a weighted cover. A single movement requiring two fingers only is involved—not a spectacular saving on one bottle of mixture, perhaps, but an important consideration where prescriptions have to be dispensed at pressure. In the past, the sink has commonly demanded more than its fair share of cleaning. The stainless steel sink of to-day, though it costs more at the start, pays for itself rapidly in increased efficiency and in actual time saved. The operation of sealing is also minimised if the gas tap is in the form of a projecting arm which turns the gas up by pressure of the hand. If the fingers are not called into play they are available for holding the wax; and the twofold movement of turning up the jet

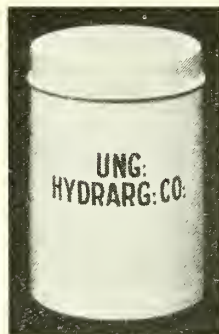


(4).—White Monarch enclosed-beam dispensing balance by William A. Webb, Ltd.

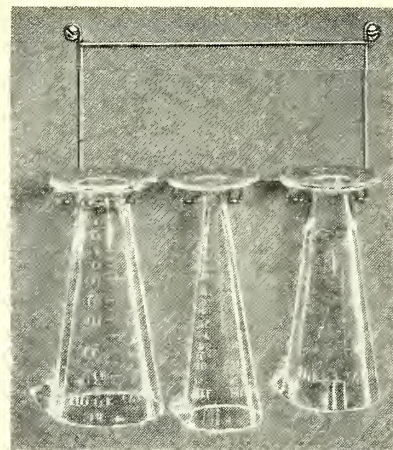
The result is that many more bottles can be accommodated in a given length of shelf than if rounds of equivalent capacity were used. The purpose, it need hardly be said, is not economy of space so much as economy of movement on the part of the dispenser, who is able to reach many more bottles without stirring from one position. The dispensing flats described are made in three sizes: 4 oz., 6 oz. and 8 oz. There are wide-necked for powders and crystals and actinic green ribbed bottles for poisons, all with ground-glass stoppers. Bottles of these capacities are hardly practicable for oils and syrups, for which rounds with special tops are more suitable. A shop round for oils in which surplus returns to bulk under cover of a glass dome, ground to fit; and another for spirits, from the stopper of which loss by evaporation is almost wholly prevented, are illustrated. In the design of ointment jars there have been no great changes, but the modern note of simplicity and economy of space is exemplified in the jar illustrated, with its deeply-cut label filled with black enamel prior



(5).—Edge-labelled dispensing flats by Beatson, Clark & Co., Ltd.



(8).—Straight-sided, fired ointment jar by Beatson, Clark & Co., Ltd.

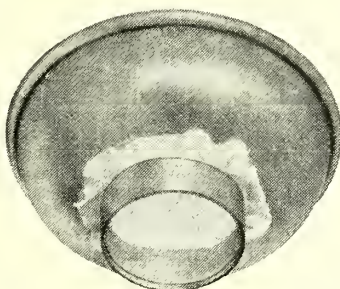


(9).—Plated wire measure rack by S. Maw, Son & Sons, Ltd.

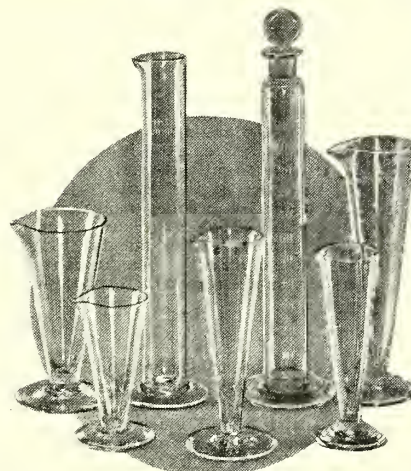
to firing. Chemists' stoneware is a specialised study. One of the best-known makers is the firm of John Lockett & Co., Longton, Staffordshire, who have interested themselves in chemists' and hospital stoneware since 1763. The range of mortars and pestles, recessed and covered shop jars, covered pots, evaporating dishes, medicine spoons, and the like, is too extensive for illustration in these pages, but attention may be directed to the aluminium-covered pot shown (3). This has been introduced recently. The most important advance in dispensary balance design has been to enclose the beam and pointer in a white enamelled house. By this means damage by fumes or dust is completely prevented and a common cause of incorrectness is eliminated. One such balance is the White Monarch issued by William A. Webb, Ltd., 4 Skinner Street, London, E.C.1. This has the additional refinement of a stainless-steel table and chromium-plated fittings.

(6).—Oil and spirit rounds by Beatson, Clark & Co., Ltd.

It is made with either double stirrups or open arm, and with either cam-release or trigger-lever lift, as preferred by the pharmacist. A similar balance is obtainable from S. Maw, Son & Sons, Ltd. A warning may be interpolated with regard to the use of glass on the table of the balance. Experience has shown that this is liable to upset the sensitivity of the balance by receiving a charge of static electricity. A useful set containing four metal and one bone spatulas, corkscrew, scoop, pill rounder, stopper loosener, stirring rods and mortar knife is issued by Messrs. Maw. The items are arranged in divisions in the base of the box and in a removable tray above. With the opportunity for counter prescribing secured to pharmacists by Section 19 of the Poisons Rules under the Pharmacy and Poisons Act, 1933, it is more than ever desirable

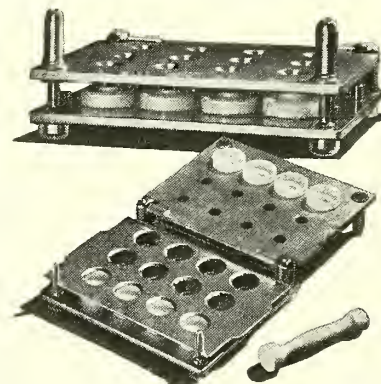


(7).—Aluminium straining funnel by Britton, Malcolm & Waymark, Ltd.



(10).—Measures and cylinders by Wood Bros. Glass Co., Ltd., Barnsley.

late Professor H. G. Greenish, is obtainable from Britton, Malcolm & Waymark, Ltd., 38 Southwark Bridge Road, London, S.E.1. The funnel is of aluminium, with detachable collar, and is used with muslin, as is clearly indicated in the illustration on this page. The same makers offer a British-made dry-sealing cachet machine which, in addition to possessing advantages over the usual French pattern, is now considerably reduced in price. The cachet bases fit tightly into the machine base and the tops into the lower surface of the hinged top. The filling trays are detachable. Instantaneous and effective sealing results, and the spring top makes removal easy. The outfit, complete with plunger, is issued in a wooden box, size 5½ in. by 6½ in. by 2½ in.



(11).—Dry-sealing cachet machine by Britton, Malcolm & Waymark, Ltd.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, April 1

THE MARKETS HAVE REOPENED on a quiet but fully steady tone after the holiday break, and the usual modest volume of business is recorded. In the PHARMACEUTICAL CHEMICALS markets a substantial increase in BORAX and BORIC ACID is notified, the makers stating the advance has been necessitated by the higher labour, freight and other costs incidental to production. We comment on page 400 on the further increase in sales prices for TARTARIC ACID, B.P., and CREAM OF TARTAR. EPHEDRINE HYDROCHLORIDE continues very firm and still higher prices are anticipated. GLYCEROPHOSPHATES are firm at the advance recorded last week. There is a distinctly steadier tone in PHENAZONE now that most of the duty-free imports have been cleared.

Crude Drugs

Business has been quieter this week, but there are very few weak items in the market; most products continue on a distinctly firm tone, due to shortage of supplies and the strong attitude of shippers. Shipment prices for new crop AGAR are fully steady. Cape shippers are holding BUCHU shipment prices firm, and business at corresponding figures is reported on spot. There is no relief in the acute shortage of CARDAMOMS, which continue at high figures. Spot values for CASCARA SAGRADA are again rather dearer; speculative offers of new crop from the source at high figures. Madagascar and Zanzibar CLOVES are slightly easier. A good deal of the February-March shipment declarations for COLOCYNTH are still outstanding; market very firm. DERRIS ROOT lacks normal business and the market tends easier. The position of Sudan GUM ACACIA is peculiar; there is an obvious effort to strengthen the market, but so far buyers have not been attracted. More interest is reported in HONEY and the market is certainly steadier, tending slightly dearer. HYDRASTIS is cheap on spot compared with the price at the source. Japanese MENTHOL remains distinctly quiet and may become unsteady. The latest returns of production, exports, stocks, etc., are given on page 409. MERCURY is now in good supply; market steady. PEPPERS are slightly better. RHUBARB is a sound market. SENEGA continues firm. TRAGACANTH is steady, but buyers are reluctant to pay current high values.

Essential Oils

The demand for these products has been mostly quiet over the past week. While values are generally steady, one or two important items are quoted at easier terms, due to lack of demand. ANISE (STAR) has been neglected. BERGAMOT is not meeting with much inquiry. Ceylon CINNAMON LEAF is again dearer for shipment and is sparingly offered. Madagascar CLOVE shows a further slight decline in shipment quotations: English distilled oil continues firm. It is evident the high prices which have been ruling at the source for Sicilian hand-pressed LEMON have restricted business, and it is reported that, owing to the continued marked lack of business, shipment prices are again easier. While shippers report they have no new crop French GUINEA ORANGE to offer, there are re-sellers at attractive prices. Japanese PEPPERMINT continues in poor demand and there is no speculative interest in the market. The sharp rise in shipment prices notified last week for WORMSEED has been confirmed and the source reports the market firm.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	March 24	April 1
Amsterdam ...	Fls. to £	12·107	8·92½	8·93
Berlin ...	Mks. to £	20·43	13·14	12·14
Brussels ...	Belgas to £	nominal	29	29·03
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	109½	100½
Madrid ...	Ptas. to £	25·22½	nominal	nominal
Milan ...	Lire to £	92·46	92½	92½
Montreal ...	Dol. to £	4·86½	4·88	4·88½
New York ...	Dol. to £	nominal	4·88½	4·89
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	106½	106½
Prague ...	Kr. to £	164·25	140	140
Stockholm ...	Kr. to £	18·159	19·40	19·40
Warsaw ...	Zloty to £	43·38	25½	25½
Zurich ...	Fr. to £	25·2115	21·44	21·45

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

DURING the few days of business of the past week the markets have been quiet and are generally steady.

ACETANILIDE.—The firmer tone recently recorded is maintained, with prices from about 1s. 7d. per lb. upwards, as to quantity.

AMIDOPYRINE.—As reported last week, the scale of prices for this material have been considerably reduced: two cwt., 13s. 6½d.; one cwt., 13s. 10d.; less than one cwt., 14s. 1½d. per lb., with powder, 2½d. per lb. extra. Prices are duty paid, ex store.

AMMONIUM ICHTHIOSULPHONATE.—Quiet market, values steady: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' and dealers' prices are unchanged, business continues on a very fair scale: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; 1 cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts, over twelve months, minimum one ton; over six months, less than one ton.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Market quiet, quotations irregular: spot, one cwt., 15s. 3½d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Values keeping steady; quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices and terms of payment continue at the recent revision: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb.

BORAX (B.P.).—Makers notify an advance of £1 10s. per ton in all grades. The new scale is as follows: granulated, £24; crystals, £25; powdered, £25 10s.; extra fine powder, £26 per ton, in 1-cwt. bags, carriage paid buyers' works, for minimum 1-ton lots. Extra for smaller quantities. Commercial quality, £8 per ton less for all descriptions.

BORIC ACID (B.P.).—Makers notify an advance of £1 10s. per ton and state advance is due to higher labour, freight and other costs. The new scale is as follows: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb., net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market quiet: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb. 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure, alkaloid, two cwt., 8s. 10½d.; one cwt., 9s. 0½d.; 56 lb., 9s. 2½d.; less than 56 lb., 9s. 4½d. per lb. Citrate, two cwt., 5s. 11½d.; one cwt., 6s. 0½d.; 56 lb., 6s. 1½d.; less than 56 lb., 6s. 2½d. per lb. Soda Sal., two cwt., 6s. 2½d.; one cwt., 6s. 3½d.; 56 lb., 6s. 4½d.; less than 56 lb., 6s. 5½d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d. per lb.

CALCIUM LACTATE.—Market remains quiet: one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—British material is steady as quoted; duty paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Prices quoted by makers are: two cwt., 2s. 5½d. per lb., one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ½d. per lb. less. Small bottles

extra, from 5d. per lb. for $\frac{1}{4}$ -lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

COCAINE.—British makers' prices for this market for wholesale bulk quantities, are as follows:—HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; $\frac{1}{2}$ oz. and less than 1 oz., 37s. 11d.; $\frac{1}{4}$ oz. and less than $\frac{1}{2}$ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; $\frac{1}{2}$ oz. and less than 1 oz., 40s. 8d.; $\frac{1}{4}$ oz. and less than $\frac{1}{2}$ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity at below the scale price for such quantity current at the time of resale. Export quotations have been withdrawn.

CREAM OF TARTAR.—Fair business at the higher price: British material, 99 to 100 per cent., 87s. per cwt., less $2\frac{1}{2}$ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE HYDROCHLORIDE.—Market continues firm. Odd small parcels might still be available at slightly less than 4s. 6d., but fully this figure would now be required for contracts for forward delivery.

GLYCERIN (B.P.).—Makers' prices for home consumption are firm at the recent advances and supplies are restricted: one ton, in 10-cwt. drums, 101s. 6d. per cwt., drums extra.

GLYCEROPHOSPHATES.—As reported last week, prices have advanced as follows: Acid Calcium (soluble), 28 lb., 4s. 6d.; 7 lb., 5s. Calcium, neutral, B.P.C., 28 lb., 4s. 6d.; 7 lb., 5s. Potassium, 75 per cent., 28 lb., 4s. 6d.; 7 lb., 5s. Sodium, 75 per cent., 28 lb., 2s. 9d.; 7 lb., 3s. 3d. per lb. 28-lb. tins free, other packings extra.

MERCURIALS.—Market is steady at makers' prices: Chloride, B.P. (calomel), one cwt. 5s. 11d.; less than one cwt., from 6s. per lb.

METHYL SALICYLATE.—Remains rather quiet but steady: spot, ten cwt., 1s. 1 $\frac{1}{2}$ d.; five cwt., 1s. 2d.; one cwt., 1s. 2 $\frac{1}{2}$ d.; less than one cwt., 1s. 2 $\frac{1}{2}$ d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Not much business moving: two cwt., 19s. 3 $\frac{1}{2}$ d.; one cwt., 19s. 9 $\frac{1}{2}$ d.; 56 lb., 20s. 2 $\frac{1}{2}$ d.; small parcels, 20s. 8d. per lb.

PHENACETIN.—Moderate business, market steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Dealers' prices for imported material are steadier, most of the cheap material having been cleared: spot quoted at about 6s. 3d. to 6s. 6d. per lb., with crystals 2 $\frac{1}{2}$ d. per lb. extra.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9 $\frac{1}{2}$ d.; salicylate, 2s. 10 $\frac{1}{2}$ d.; hydrochloride, 2s. 8 $\frac{1}{2}$ d.; bihydrochloride, 3s.; hydrobromide, 2s. 8 $\frac{1}{2}$ d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloids, 3s. 0 $\frac{1}{2}$ d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—British material quoted unchanged: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. 6d. per lb.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Makers' prices unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7 $\frac{1}{2}$ d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SALOL.—Business quiet at competitive figures: quoted from about 2s. 7d. to 3s. per lb., as to quantity.

SANTONIN.—The demand remains poor, with spot offers at about £10 per kilo, ex store.

SODIUM BENZOATE (B.P.).—Market is steady, with a limited business passing: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 7 $\frac{1}{2}$ d. up to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Market continues steady, business quiet: spot, one cwt., 11s. 6d.; 28 lb., 11s. 9d.; 14 lb., 12s.; 7 lb., 12s. 3d.; smaller parcels, up to 12s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—Demand has been quieter, values quoted unchanged: home trade, crystals or powder, five cwt., 1s. 5 $\frac{1}{2}$ d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Market remains dull and irregular: crystals or powder, two cwt., 15s. 5 $\frac{1}{2}$ d.; one cwt., 15s. 10 $\frac{1}{2}$ d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Steady at the advance: British makers quote at 1s. 1 $\frac{1}{2}$ d. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

THYMOL.—Fair business, market dull: synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 3d.; 28 lb., 6s. 9d.; 14 lb., 7s. per lb.; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10 $\frac{1}{2}$ d.; 28 lb., 9s. 5 $\frac{1}{2}$ d.; 14 lb., 10s. 6d. per lb.

Crude Drugs, etc.

AGAR.—Business fair and mostly for re-export, shipment unchanged: spot, Kobe No. 1, 4s.; No. 2, 3s. 9d.; Yokohama No. 1, 3s. 7d. per lb.; shipment, April-May, Kobe No. 1, 3s. 10d.; No. 2, 3s. 9d.; Yokohama No. 1, 3s. 7d. per lb., c.i.f.

ALGES.—Market has been rather quiet, but values are steady: Cape, spot, 60s., in boxes; shipment, prime, in boxes, 58s. per cwt., c.i.f. Curaçao, spot, 90s. to 110s., as to quality; shipment, 90s. to 92s. per cwt., c.i.f.

ANTIMONY.—Chinese crude, spot, £43; shipment, April-May, £39, c.i.f. English regulus, spot, £88 to £90 per ton.

BALSAMS.—Some small spot business at former figures: *Tolu*, 1s. 2d.; *Canada*, 2s. 7d.; *Copaiba*, 1s. 8d.; *Peru*, 5s. 4d. per lb., spot.

BENZOLIN.—Freely offered at low prices, modest business: spot, £3 10s. to £5 per cwt., as to quality.

BUCHU.—The source is quoting strongly at 2s., c.i.f., for new crop rounds. On spot rounds are limited at 2s. 3d. to 2s. 6d. per lb., as to quality. Spot business in ovals with yellow stalky sold at 1s. 10d. and very ordinary fair stuff at 2s. Ovals cleared for the time being.

CAMPHOR.—Routine consuming demand at steady prices. Japanese manufacturing BB grade is steady at the recent advance at £8 10s. per 100 lb. Japanese, spot, tablets, 2s. 7 $\frac{1}{2}$ d.; powder, 2s. 3 $\frac{1}{2}$ d.; slabs, 2s. 3d. per lb., ex store; shipment, tablets, 2s. 3d.; powder, 2s. 1d.; slabs, 2s. 0 $\frac{1}{2}$ d. per lb., c.i.f. English refined flowers: one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; $\frac{1}{2}$ oz., $\frac{3}{4}$ oz. and $\frac{1}{4}$ oz., 3s. 6d. per lb. Contracts at special prices.

CARDAMOMS.—The market continues firm for all descriptions: spot, Aleppy greens, 5s.; split seeds, 5s. to 5s. 3d. per lb.; Bombay seed, 5s. 9d. ex store. Shipment: Bombay seed, 6s. 3d., c.i.f.; Aleppy greens, 4s., c.i.f.; and Mangalore seed, 6s. 2d. per lb., c.i.f.

CASCARA SAGRADA.—Market is very steady and prices tend somewhat dearer: spot, 1936 peel, 60s.; 1935 peel, if available, 67s. 6d.; 1933 peel, 72s. 6d. per cwt. ex store. Offers of new crop peel, apparently speculative, at 55s. to 56s. per cwt., c.i.f.

CLOVES.—Market is again slightly easier and remains quiet: Zanzibar, spot, 10 $\frac{1}{2}$ d., shipment April-May, 10 $\frac{1}{2}$ d. per lb. c.i.f.; Madagascar, in bond, 9d., shipment, March-April, 8 $\frac{1}{2}$ d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended March 27 were 70 and the deliveries 44, leaving a stock of 2,325. From January 1 to date the landings of Zanzibar have been 1,804 and the deliveries 1,155. Landings of Madagascar for the week ended March 27 were 625 and the deliveries nil, leaving a stock of 4,621. From January 1 to date the landings of Madagascar have been 3,990 and the deliveries 702 packages.

COCONUT (DESSICATED).—Values are level on the week, market dull: spot, fine, 28s. 6d.; medium, 27s. 6d. per cwt., shipment, halves, March-April, 25s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—Finest Lofoten steam refined non-freezing medicinal oil, 88s. to 90s. per barrel, c.i.f., London. Spot, in small lots, about 125s. per barrel, ex store. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British medicinal oil: We are advised that the home producers are now quoting at 110s. per 25-gallon barrel, delivered U.K., with rebates for 25, 50 or more barrels.

COLOCYNTH.—A small quantity of old pulp on spot is still available at 2s. 6d. per lb. Re-sellers of March-April at 2s., c.i.f., with no offers from the source. February and March declarations still outstanding, and New York reports similar conditions.

DERRIS ROOT.—Market remains flat: spot, 10 $\frac{1}{2}$ d. to 1s. 3d., as to test; shipment, basis 17 per cent. ether extract, about 9 $\frac{1}{2}$ d. per lb., c.i.f.

ERGOT.—Limited supplies available on spot: Spanish/Portuguese, 6s. 4 $\frac{1}{2}$ d.; Russian, 6s. per lb., ex store; Spanish/Portuguese offered for shipment at 6s. 3d. per lb., c.i.f., with no business at this figure.

GENTIAN.—Continental material continues to be offered steadily on spot at 57s. 6d. per cwt., ex store.

GINGER.—Quotations for West African are easier, market dull. West African, spot, 60s.; shipment, March-April arrival, 50s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 87s. 6d. to 90s.; small grindings, 62s. 6d. per cwt., in bags, ex store.

GUM ACACIA.—While business seems to remain rather quiet, efforts are being made to strengthen the market, but confidence is lacking: spot, Kordofan cleaned sorts, 46s.; bleached, No. 1, 105s.; extra, 117s. 6d. per cwt.; shipment, Kordofan cleaned sorts, about 44s. per cwt., c.i.f.

HONEY.—More interest in this product after a prolonged period of slackness and values, if anything tend rather dearer and are distinctly steadier: spot, Jamaican, 38s. to 50s. for dark manufacturing to pale set; Canadian, palish, 50s.; Californian, white clover, 51s. per cwt., duty paid.

HYDRASTIS.—Market has been quiet: spot, 13s. 3d. to 13s. 9d., as to seller; shipment varying in the region of 13s. 6d. per lb., c.i.f.

IPECACUANHA.—Market is fairly steady, but quiet: Matto Grosso, B.P. test, about 7s. per lb.

LOBELIA HERB.—Dealers are offering spot supplies at about 6½d. to 7d. per lb., ex store.

LYCOPodium.—Small spot business, with supplies quoted at about 4s. 9d. per lb., ex store.

MENTHOL.—This market has again been dull and the tone is rather unsteady: K/S brands, spot, 12s. 10½d.; afloat, about 11s. 9d., c.i.f. Japanese shippers quote April-May at about 11s. 6d., c.i.f., with no interest shown; resellers at 11s. 4½d., c.i.f.

MERCURY.—First-hand report supplies continue ample for normal requirements, and they anticipate a continuance of good shipments. Market is steady at former prices. Quoted at 68 dollars per bottle, f.o.b. Continent; £14 per bottle, c.i.f. London; spot, in small lots, £14 7s. 6d. to £14 8s. per bottle, ex store.

OPIUM.—Values are quoted unchanged for small lots on spot: spot, Turkish, 1s. 3d. per unit; Persian, 1s. 1½d. per unit, landed and duty paid.

PEPPER.—Values have improved and the market is steady. Lampung, in bond, 3½d.; shipment, April-May, 3½d.; April-June, 3½d.; August-October, 3½d., c.i.f. Tellicherry, spot, 4½d.; shipment, March-April, 37s. 6d., c.i.f. Aleppy, spot, 4½d.; shipment, March-April, 37s. 6d., c.i.f. White Muntok, in bond, 6d.; shipment, April-May, 5½d.; April-June, 5½d.; August-October, 5½d. per lb., c.i.f.

PIMENTO.—Market quiet, values steady: spot, 8½d. per lb.; shipment, March-April, 66s. per cwt., c.i.f.

RHUBARB.—A limited sale this week, with values for all descriptions very steady on account of smallness of stocks. Shensi, best, 4s. 3d.; medium, 3s. 9d. to 4s.; good pickings, 3s. per lb. Rough round firm at 1s. 9d., ex store; shipment, April-May, firm at 1s. 6d. per lb., c.i.f.

RUBBER.—The market reopened on a strong tone, with business active at the further advance. Standard ribbed smoked sheet, spot, 1s. 1½d.; April, 1s. 1½d.; May, 1s. 1½d.; June, 1s. 1½d.; July-September, 1s. 1½d.; October-December, 1s. 1½d.; January-March, 1s. 1½d. per lb.

SAFFRON.—Dealers' prices for good quality Valencia range from about 65s. to 70s. per lb., as to quantity and seller.

SEEDS.—**ANISE.**—Bulgarian quoted at 38s., spot, duty paid. **CANARY.**—Market remains quiet and unchanged: Mazagan, 29s.; Turkish, 26s.; Plate, 23s. 6d., and Spanish, 40s. to 50s., all spot, duty paid. **CORIANDE.**—Morocco, spot, 17s. 6d., duty paid, and 16s. 6d. in bond. **CUMIN.**—Malta not offering: Morocco, 31s., spot, duty paid; 29s. in bond. **FENUGREEK.**—Morocco offering at 14s. 6d., spot, duty paid. **FENNEL.**—Indian, 32s. 6d., spot; Persian, 30s., spot. **MUSTARD.**—English, 22s. 6d. to 30s. per cwt., according to quality.

SENEGA.—Market continues firm, spot and forward: spot, 2s. 4d. to 2s. 4½d.; shipment, 2s. 3½d. to 2s. 4d. per lb., c.i.f.

SENNA.—Business has been fair, with prices tending to higher limits. Spot stocks of good green Tinnevely leaves are becoming reduced, with good bold offering at 7d. (rather poor colour), No. 1 fair green at 5½d., No. 2 at 3½d.; No. 3 and 2½d. and common No. 4 at 2½d. per lb., ex wharf. Tinnevely pods continue in steady demand, with holders quoting cautiously; good hand-picked available at 3½d. to 5½d. per lb., according to quality, and f.a.q. dearer at 2d. to 2½d. per lb. Alexandrian: shipments of new season's hand-picked pods are now arriving more frequently, but limits for good gold quality remain high. Best selected bold green new-crop pods command 5s. to 6s. per lb. No. 1 at 3s. 3d. to 4s. 3d., No. 2 at 2s. 6d. to 3s., No. 3 at 2s. to 2s. 3d. per lb., ex wharf, London. A fair selection of old crop pods are on offer at 1s. 4d. to 2s. per lb.

SHELLAC.—Values level on the week, business quiet: spot, standard TN orange, 54s. to 58s.; fine orange, 65s. to 120s.; pure button, 62s. 6d. to 65s. per cwt., spot. For delivery, TN, May, 55s.; August, 56s. 6d.; October, 57s. 6d. For arrival, TN, March-April, 53s. 6d. per cwt., c.i.f.

TRAGACANTH.—Prices quoted for all grades continue to be steadily maintained and a fair business is reported. Druggists' fine white ribbon, £75; No. 2 grade, £65; No. 3 grade, £60 per cwt. Consumers appear to be holding off as long as possible, feeling that any movement in values from the present high figures would be likely to be in their favour.

WAX.—**BEE.**—For some descriptions the shipment quotation is dearer. Calcutta, bleached, spot, 147s. 6d.; shipment, April-May, 147s. 6d.; ordinary quality, spot, 130s.; shipment, 122s. 6d., c.i.f. Abyssinian, no spot offering; shipment, April-May, 127s. 6d., c.i.f. Benguella, spot, 145s.; shipment, 129s., c.i.f. Conakry, spot, none offering; shipment, 129s., c.i.f. Dar-es-Salaam, spot, 145s.; shipment, 140s. per cwt., c.i.f. **CARNAUBA.**—Market continues rather quiet. Fatty grey, spot, 175s.; shipment, afloat, 167s. 6d., c.i.f.; April-May, 166s., c.i.f. Chalky grey, spot, 167s. 6d.; shipment, April-May, 163s. 6d., c.i.f. Primeira, spot, good quality, 220s., f.a.q., 215s.; shipment, April-May, 210s., c.i.f. Mediana, spot, 210s.; shipment, 205s., c.i.f.

Essential Oils, etc.

BUSINESS has been on the quiet side since the holiday break, but the general tone is steady. Ceylon cinnamon leaf is again dearer for shipment. Sicilian hand-pressed lemon is easier, spot and forward. Japanese peppermint remains dull and tends somewhat easier. Wormseed is sharply dearer for shipment.

ANISE (SIAM).—Market has been dull: quoted unchanged: spot, leads, 3s. 6d.; tins, 3s. 4d.; drums, 3s. 2d. per lb., ex store; shipment, leads, nominal; tins, 3s.; drums, 2s. 10½d. per lb., c.i.f.

BERGAMOT.—Both the spot and shipment markets have remained dull: spot, 13s. to 13s. 5d.; shipment, 13s. to 13s. 3d. per lb., c.i.f., as to brand.

CANANGA.—Market is quiet and unsteady: spot, 6s. 3d. to 6s. 7½d.; shipment, 6s. 3d. per lb., c.i.f.

CARAWAY.—Market is steady, business slow. Dutch, rectified, 8s.; crude, 7s. 7d. per lb., landed and duty paid.

CASSIA.—Limited spot business, with prices keeping steady: spot, 3s. 2d. to 3s. 3d. for good quality oil; shipment, leads 3s.; drums, 2s. 10d. per lb., c.i.f.

CEDAR LEAF.—A small parcel business on spot, with quotations at about 4s. 9d. to 5s. per lb.

CEDARWOOD.—Business has been quieter on spot, with quotations competitive. African, in drums, 1s.; smaller packages, up to 1s. 3d. per lb. American, in drums, 1s. 1d.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Only a few shipment offers received this week, and prices are again dearer for Ceylon oil at 3s. 9d., c.i.f., in drums. Spot values would now be from 4s. per lb. up to 4s. 6d. for small lots.

CLOVE.—A further slight weakening in shipment offers of Madagascar oil: Madagascar, spot, drums, nominal; smaller packings, up to 5s. 9d. per lb.; shipment, from 3s. 10½d. per lb., c.i.f. English distilled oil is steady, with cwt lots at 6s. and smaller parcels up to 6s. 3d. per lb.

EUCALYPTUS.—Market continues fully steady, with a little more inquiry being received. Shipment offers firm at last week's advance and for May-June shipment only: Australian, 70 to 75 per cent., 1s. 7½d., in tins, and 1s. 7d., in drums; 80 to 85 per cent., 1s. 8½d., in drums, per lb. landed; higher prices for small lots on spot; shipment, 70 to 75 per cent., 1s. 6d.; 80 to 85 per cent., 1s. 7d. per lb., c.i.f., for tins in cases. Spanish, 70 to 75 per cent., 1s. 6½d. per lb., landed.

LEMON.—A further decline in shipment prices is reported from the source for Sicilian hand-pressed oil, due, it is stated to the marked lack of business during the past two or three months. Offers vary as to brand from about 12s. to 14s. per lb., c.i.f., as to brand and quantity. On spot, business has been disappointing and the present cold spell is not likely to improve matters. Offers vary from 11s. 6d. up to 14s. 6d. per lb., as to brand and quantity. No Californian cold-pressed available. Small supply of distilled, regular quality: quoted at 8s. 4d. per lb., landed.

LEMONGRASS.—Shipment business dull: with the price about 1s. 8d., c.i.f.; spot, 1s. 10d. to 2s. per lb., ex store.

NUTMEG.—The American oil is at the recent advance, and is held for 6s. 3d. to 6s. 4½d. per lb., spot. English-made oil is steady on spot at 5s. 9d. to 6s. 3d. per lb., as to quantity.

ORANGE.—The spot market during the holiday week has been slack, and the present unseasonable weather is affecting business in this oil. Sicilian oils continue non-competitive. Drums of French Guinea new crop oil are available from 6s. to 7s. per lb., as to seller, with some bad quality oil and old crop oil at cheaper prices. There are no shipment offers from the source, and the crop is said to be all sold. Resellers from 4s. 10½d. per lb., c.i.f. Californian oil in quiet demand. Small drums, 4s. 2½d.; tins in cases, 4s. 3½d.; single cases, 4s. 6d. per lb., ex store. Small lots of cold-pressed at 11s. 3d. per lb., c.i.f.

PEPPERMINT.—The Japanese product has been quiet, the market being neglected by consumers and speculators: on spot, about 5s.; afloat, 4s. 9d., c.i.f. Japanese shippers quote April-May at 5s., c.i.f., with resellers at 4s. 10d., c.i.f. The American natural oil is quoted for shipment at about 2 dollars 50 to 60 cents per lb., c.i.f.; spot supplies are offered at comparatively cheap prices, with business quiet.

PETITGRAIN.—Business has remained slow: spot, 4s. 2d. to 4s. 3d. for cases and up to 4s. 6d. for smaller packings; shipment, 3s. 10d. per lb., c.i.f., in cases.

ROSEMARY.—Moderate spot demand, with good quality Spanish oil steady at about 3s. 9d. to 4s. 3d. per lb., as to quantity.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; oil described as British Indian at very competitive prices. English-made East Indian, 22s. 6d. to 25s. per lb. as to quantity. English-made West Indian, 7s. 3d. per lb. Australian oil continues steady: five cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

WORMSEED.—Market is firmer and quoted dearer: spot, about 12s. 6d., as to seller; shipment, up to 12s. 3d. per lb., c.i.f.

Commercial Notes

TURKISH ROSE EXPORTS.—Exports of otto of rose from Turkey declared for export to the United States in 1936 amounted to 959 ounces, valued at \$3,825, as against 4,682 ounces, valued at \$20,750, in 1935.

CURAÇAO ALOES EXPORTS.—Exports of aloes from Netherlands West Indies during the first nine months of 1936 amounted to 272 metric tons, valued at 101,784 guilders, as against 230 tons, 81,782 guilders, for 1935 (first nine months). Increased exports were attributed to increased cultivation in Bonaire and Aruba.

BULGARIAN ROSE OIL EXPORTS.—Exports of rose oil from Bulgaria in 1936 were estimated to amount to over 1,950 kilos, valued at 53,000,000 leva, as compared with 1,671 kilos, valued at 44,450,000 leva, in 1935. This will reduce the old stocks on hand at the Agricultural and Co-operative Bank of Bulgaria.

YUGOSLAVIA PYRETHRUM PRODUCTION.—The 1936 production of pyrethrum in Yugoslavia was estimated at 780 metric tons, as compared with about 700 tons in 1935. Stocks on hand late in October included 150 tons of 1935 production and 400 tons of new crop flowers. Exports this year were destined chiefly to Germany, France and the United Kingdom, with trial lots to Sweden. Shipments to the United States in the first half of 1936 totalled 35 tons.

MADAGASCAR ESSENTIAL OIL EXPORTS.—Shipments for the period January-September 1935 and 1936 were as follows:—

	1935 (9 months)	1936 (9 months)
	Kilos	Kilos
Rose geranium	398	264
Ylang ylang	22,595	25,398
Clove	124,877	175,925
Lemongrass	43,136	45,062
Cinnamon	54	2,114
Basil	52	50
Patchouli	328	—
Others	997	1,595

FRENCH GUINEA ORANGE OIL.—Shipments are reported as follows for the first six months of the years mentioned:—

To	Metric quintal			Value in thousand of francs		
	1934	1935	1936	1934	1935	1936
France	1,023	1,673	1,141	773	1,163	1,644
Germany	3	—	81	2	—	126
England	150	71	370	59	62	524
Belgium	—	1	—	—	1	—
United States	14	—	14	10	—	21
Netherlands	—	—	51	—	—	76
Total	1,191	1,745	1,657	845	1,226	2,391

FRENCH ESSENTIAL OIL EXPORTS.—Exports during 1935 and 1936 were as follows:—

Product	1935	1936
	\$	\$
Geranium essential oil	164,398	112,238
Lavender essential oil	198,253	400,639
Misc. essential oils	136,740	214,947
Jasmine floral essence	143,051	173,292
Floral essence, others	81,502	88,132
Other perfumery products	59,018	52,665
Floral waters	6,759	5,432
Total	789,721	1,047,345

JAPANESE MENTHOL.—The following returns of production, home consumption, exports and stocks at March 1, 1937, have been received from an unofficial but reliable source in Japan:—

Total Production in 1936:	lb.
In Hokkaido	1,335,000
In Sambi	265,000
In Korea and elsewhere	130,000
	1,730,000
Balance brought over from 1935	130,000
	1,860,000
Domestic consumption during August 1936 to Feb. 1937	270,000
	1,590,000
Total exports during August 1936 to February 1937	1,150,000
Approximate balance of stock as on March 1, 1937	lb. 440,000

American Trade Notes

U.S.A. PEPPERMINT OIL EXPORTS.—Shipments for the years 1922 to 1936 were as follows:—

	Lb.	\$		Lb.	\$
1922	129,000	299,000	1930	233,000	700,000
1923	123,000	366,000	1931	230,000	438,000
1924	177,000	847,000	1932	263,000	455,000
1925	68,000	776,000	1933	235,000	567,000
1926	68,000	571,000	1934	238,000	679,000
1927	213,000	833,000	1935	338,000	865,000
1928	177,000	604,000	1936	386,000	874,000
1929	222,000	795,000			

U.S.A. GUM IMPORTS.—Arrivals during 1934-1936 were as follows:—

	1934		1935		1936	
	Lb.	\$	Lb.	\$	Lb.	\$
Acacia	6,347	384	7,955	622	8,424	619
Tragacanth	1,275	335	2,474	571	2,093	592
Karaya and talka	4,107	413	4,830	311	5,401	598
Other gums and resins	3,156	336	4,072	421	—	410
	14,885	1,468	19,331	1,925	—	2,219

Weight and value: '000 omitted.

U.S.A. IMPORTS OF MENTHOL.—Imports during the past nineteen years were as follows:—

	Lb.	\$		Lb.	\$
1918	151,000	412,000	1928	254,000	924,000
1919	296,000	1,583,000	1929	296,000	1,232,000
1920	206,000	1,565,000	1930	308,000	1,017,000
1921	165,000	916,000	1931	326,000	878,000
1922	182,000	881,000	1932	351,000	734,000
1923	197,000	1,467,000	1933	304,000	629,000
1924	193,000	1,744,000	1934	425,000	848,000
1925	294,000	2,599,000	1935	282,000	654,000
1926	459,000	2,842,000	1936	342,000	831,000
1927	369,000	1,332,000			

U.S.A. GLYCERIN TRADE.—Official returns were:—

	Nine Months, 1935		Nine Months, 1936	
	lb.	\$	lb.	\$
Imports:—				
Crude	6,277,223	524,295	6,793,032	674,712
Refined	62,132	7,094	1,584,234	256,171
Exports	1,994,995	268,419	928,176	144,137
Grade	Production		Stocks on hand	
	Nine Months	Nine Months	30/9/35	30/9/36
	1935	1936		
Crude, 80 per cent. basis	107,864,778	111,629,052	9,644,148	10,733,195
Dynamite grade	36,714,563	33,820,680	16,676,025	10,806,112
Chemically pure	56,512,714	59,282,156	13,081,866	8,842,746

U.S.A. ESSENTIAL OILS EXPORTS.—On only four other occasions during the past 15 years has the value of United States essential oil exports been greater than during 1936, when it equalled \$1,119,000. The quantity, however, was only 1,441,000 lb., including 150,000 lb. of blended, compounded and mixed oils valued at \$349,000 and 31,000 lb. of spearmint oil valued at \$56,000. The essential oils dealt with in this item exclude peppermint oil and include orange and lemon oils in the years 1922 to 1928 but exclude them thereafter. (Exports of citrus oils during 1936 amounted to 284,993 lb., valued at \$345,461, as against 337,000 lb., valued at \$283,000, during 1935 and 109,000 lb., valued at \$93,000, during 1934.)

	Lb.	\$		Lb.	\$
1922	1,056,000	586,000	1930	996,000	1,039,000
1923	638,000	646,000	1931	1,363,000	782,000
1924	1,098,000	828,000	1932	1,074,000	439,000
1925	1,321,000	895,000	1933	1,069,000	467,000
1926	3,067,000	1,125,000	1934	1,311,000	521,000
1927	3,617,000	1,291,000	1935	2,171,000	949,000
1928	4,069,000	1,283,000	1936	1,441,000	1,119,000
1929	2,180,000	1,246,000			

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The Plymouth Questions

SIR,—The *questionnaire* framed by the Plymouth Branch of the Pharmaceutical Society (*C. & D.*, March 27, p. 383) consists of five questions, and the answers should give the voters a good idea of the main interests and proposed policy of the candidates. It is stated that the candidates are not expected to give a simple "Yes" or "No," but the questions are so worded that they could be answered in this way, although in cases where a candidate has varied interests he might desire to elaborate his answers. There is one question which I should like to see added: "Are you in any way connected with any group of financiers engaged in pharmacy as a speculative investment?" As the election time for the Council comes round each year one hears a good deal about the apathy of the electorate. The curious part is that when one speaks to non-voters one generally finds they are far from apathetic and are prompt to express their views concerning the Council in no uncertain terms. But there seems to be a feeling that it makes no difference to the trend of events whether one votes or not; pharmacists seem to think that little has been or will be done to improve their position, and they give the question up as hopeless.—Faithfully yours,

VOTARY (30/3).

"Emergency" List of Drugs

SIR,—It will be of some interest to see which drugs are considered indispensable and are to be placed on the "emergency" list (*C. & D.*, March 27, p. 361). From time to time analyses have been made of numbers of insurance prescriptions to ascertain which drugs have been ordered most frequently, and the results of these might well be compared with the "emergency" list to see if the indispensable drugs correspond with those most used in practice. If these 160 drugs would be sufficient to treat the civil population adequately (and it is suggested in the article quoted that this list could be very drastically pruned), then it is evident that a large number of the preparations we are called on to dispense on panel prescriptions could well be replaced by simpler ones; and as you suggest (p. 373) an experimental period of prescribing on this basis might resuscitate the drug fund. If a business concern had to show a 5 per cent. deficit on its annual balance sheet it would certainly consider its position to be a state of emergency; so the condition of the drug fund might well be added to "war and stoppage of imports" in the definition given. It will also be interesting to see whether any expensive or proprietary drugs are included in this list. We are all agreed that insured persons have a right to whatever treatment is necessary for their complaints; but when dispensing these items one wonders at times whether they could not be treated equally well by the usual drugs in stock.

Yours truly,

EMERGO (31/3).

This Unjust Report

SIR,—I take it that "Bled White," on discontinuing N.H.I., D.D.A. and poisons would cease to be an authorised seller of poisons and thus make himself a free man. Many must be tempted to do this. But wait. The C.F. manufacturers would refuse to supply him (in spite of his still being a chemist). What would be his course of action?—Yours faithfully,

COMPETITION WITH GROCERS AND BAZAARS (23/3).

SIR,—In your second article on "This Unjust Report" (*C. & D.*, March 13, p. 309) you refer to the position of the retail chemist; that according to the report he is now to be classified as a tradesman or mere distributor. There seemed to be an erroneous idea that the fee for shops and the fee for personal retention on the Register were similar payments to the subscriptions of the members of a trade union or trade protection society; despite the explanations of the pharmaceutical representatives it does not seem to have been fully realised that these fees go to the upkeep of the statutory functions of the Society and to paying for Government control which in other spheres of business and industry is chargeable to the national expenditure. Writing of the position of chemists under the

D.D. Acts, the 1933 Act, and the N.H.I. Acts, you remark that laymen, Government officials and others constantly put the question: why do chemists undertake this work? As one who has been on the panel since the first day, I think I can explain why most of us have put up with the conditions and payment of insurance work year after year. When the Act first came into force chemists thought that at last their right to dispense was recognised and they were coming into their own as a profession; the pay was not large, but it was felt to be a start in the right direction. To their dismay the drug fund proved inadequate and their accounts could not be met in full, so the "commercial" tariff was evolved, under which they are finally worse off than before. Yet they have accepted the contract term after term, because they wished to prove their right to dispense and were hoping it would be recognised for all medicines with a corresponding improvement in remuneration. But the biggest factor in their acceptance of the miserable conditions has been the knowledge that a refusal of the contract would not be unanimous; I have heard it said at a chemists' meeting by some members that they would continue on the panel if everybody else came off, and even if the present dispensing fee were reduced. In the face of such an attitude, is it likely that chemists will ever get any consideration from the authorities? You mention the belief of members of the public concerning the financial rewards of our so-called privileges; not once but many times I have been told by insured customers that chemists must be making a fine thing out of this panel business. You point out that the bazaar trader is only interested in lines in constant demand with a quick sale, and refuses to handle those which are not. But the public expect to get any little requirement from the chemist which they cannot get elsewhere. They can buy their daily requirements as they stroll round the stores, but these places will not depart from their routine to weigh up small quantities, or make some special item for a few pence, although the retail chemist is expected to do so. Are we to be left with all the awkward unprofitable sales whilst the rapid turnover goes to these other shops?—Faithfully yours,

TAXED ALL ROUND (16/3).

Subscribers' Symposium

for interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Appreciation

"... What is worthy of consideration is the big business existing around our shops in the ownership of pets. . . . The first thing is—he [the chemist] must know something about veterinary medicine; the 'Chemist and Druggist' book, written for the chemist in simple direct language, helps him to make good, and the book is only 10s. 6d. post free, and means building up more business."—"The Script."

Warning

Calmon & Neate, Ltd., 8 Gerrard Street, London, W.1, inform us that stolen Michel lipsticks may be offered to the trade; the goods are chiefly in raspberry, vivid and scarlet shades. An announcement to this effect appears in the advertisement section of this issue.

Sizes of Price Lists

It is something to learn that the idea of a standard price list has been considered by the wholesale trade (*C. & D.*, March 20, p. 326). If such a list were issued it could be in three sections bound separately, drugs, proprietaries and sundries. Sundries could include all those general items which are stocked in common by most wholesalers and retailers; the prices are equal within a penny or two whichever firm one orders from, and could easily be standardised. Drug lists, on the other hand, are used by the retail chemist mostly as a guide for reference rather than to ascertain the real price. The principal obstacle in issuing a standard list is the existence of the many different brands and specialities put up by all wholesale firms, which would necessitate a separate list from each.—*One List* (23/3).

Dispensing Notes

A Troublesome Paint

SIR,—I should be much obliged if you would advise on the dispensing of:—

Gum mastic	...	...	...	...	5j.
Zinc chloride	...	...	...	...	gr. v.
Chloroform	...	...	...	...	5ss.

Yours faithfully,

C. G. P. (16/2).

[It is not easy working on such small quantities correctly (without loss). We prepared some with double the quantities stated. Measure one fl. oz. of chloroform into a 2-oz. wide-mouth bottle (dry) and add 5j. of mastic elect, not powder. Cork, and lay the bottle on its side in a warm place. The mastic tears float, and very quickly dissolve. Strain the solution through a small pledget of wool into another two-oz. narrow mouth bottle. In a small test-tube place 10 grains of dry (as possible) flaked zinc chloride fused (it should first be quickly crushed), then add 20 minims approximately of industrial alcohol. When dissolved, by immersion in hot water, add this to the strained mastic solution. Rinse out the test-tube with another 20 minims of industrial alcohol, and add. We regard your prescription as so theoretical that these modifications are necessary.]

Linct. Morph. Rub., N.H.I.

SIR,—I have difficulty in getting chloroform dissolved in linct. morph. rub. N.H.I., and should be glad of your advice:—

Yours faithfully,

V. P. B. (16/2).

[It is not always possible to make satisfactory preparations from such formulas as are given for N.H.I. dispensing. It is not possible to get more than 2½ minims of chloroform into solution in 1 oz. aq. dest., and although there are some suspending agents present, there is nothing in our opinion that is calculated to increase solubility, rather the reverse. Probably the best plan is to use 10 minims of emulsio chloroformi instead of the ½ minim pure chloroform. Emulsio chloroformi is cheap and is extensively used in hospitals. Dispense with a "Shake the bottle" label. In any case, such a mixture would only be dangerous if someone were to use the sedimented residue of a ten-gallon storage vessel.]

Glyc. Ac. Carb. as a Caustic

SIR,—We would like your opinion on the following prescription:—

Glycer. acid. carbol.	...	...	...	1 oz.
Glycer. boracis	...	...	...	1½ oz.
Hydrogen. peroxid.	...	...	...	2 oz.
Aq. menth. pip.	...	...	ad	6 oz.

Sig.—Two teaspoonfuls in half-tumbler of hot water q.i.d.

On consulting the B.P. and B.P.C. we find that glycer. acid. carbol., when diluted with water, is rendered caustic, and on quoting this to the doctor who prescribed it he states that it is in both the Edinburgh Royal Infirmary and London Hospital formulary. Could you please give us an explanation of this?

Yours faithfully,

G. D. (20/2).

[We think you are taking the statements of the B.P. and B.P.C. somewhat too literally. Like many others, these statements have their limits and are surrounded by a halo of detail. A saturated solution of phenol in water (about 1 in 13) would be quite caustic and readily blanch the skin. A 1 in 20 solution in water would have a mild caustic action on most skins, although there are some oily skins which would stand that strength. On mucus membrane 1 in 20 aqueous would be decidedly drastic. A 1 in 40 solution in water is quite a common strength in hospitals, and for the skin is not as a rule harmful. Glycerin of phenol, which is 16 per cent. w/w in glycerin, is therefore more than twice the strength of a saturated aqueous solution of phenol. It is not caustic *per se*, although the action may be described as a retarded one. Used with caution it is perfectly safe. It can easily be visualised that when a 16 per cent. solution of phenol in glycerin is diluted with one or two parts of water only, that the medium or base is then too dilute to exert its retarding action. The

mixture acts, therefore, somewhat like a saturated aqueous solution of phenol would do, and is decidedly caustic. If, however, the glycerin of phenol is diluted with 8 or 9 parts of water, the result is virtually lotio phenol 1 in 40, the glycerin having then ceased to count. When your mouth-wash is diluted in the proportion of two teaspoonfuls to a half-tumbler of water, the strength is then roughly 1 in 800, and as a matter of fact it is neither antiseptic nor caustic, only mildly sedative. Your query is rather an important one, as many medical practitioners in our experience, not realising the strength of glycerin of phenol, have diluted it with water for application to the ear, with undesirable results.]

Metal discolours Spray

SIR,—Can you suggest why the following should turn green after being used in a metal and glass atomizer:—

Cocain.	...	...	...	...	gr. vij.
Menthol.	...	...	...	...	gr. iij.
Ac. oleic.	...	...	...	...	3ss.
Paraf. liq.	...	...	...	ad	3j.

Yours faithfully,

W. R. M. G. (19/1).

[We have carried out the following experiment:—One ounce of nebula, according to the formula given, was prepared and poured into a clean copper beaker, which was not polished bright inside, but had the usual dull, slight tarnish of copper. The beaker was covered and placed on a counter a few feet away from a radiator for two days. It was then poured out into a white glass bottle, when it was found to be a strong bluish-green colour. We have noted that the plated parts of metal and glass sprays rapidly lose the plating in the angles, and round the screw (if it ever had any on these parts) exposing the copper. It is well known also to engineers that turpentine eats away brass taps, so that it is probable that menthol, although only allied to the terpenes, assists in the process. We have no doubt that the green colour is a trace of copper oleate.]

Egg, Iodine and Chloroform

SIR,—I am sending you the enclosed prescription for your remarks on same. I might say that the formula arose through my informing the doctor who is in charge of clinics that iodine if mixed with egg made a compound which is easily digested, kept well and did not alter the action of the iodine. He was interested, and the Medical Research Committee added the chloroform and suggested a method of preparation. I think that potass. brom. with white of egg was used to give people who are subject to bleeding. I wonder if bromine was mixed with the white of egg whether the result would be the same?

Iodine	...	...	...	16 gr.
Potassium iodide	...	...	...	16 gr.
Glycerin	...	...	...	2 fl. oz.
Chloroform	...	...	...	30 ℥
1 egg	...	...	...	...
Water	...	...	...	to 12 fl. oz.

Yours faithfully,

P. G. C. (16/2)

[The chloroform in your egg-iodine preparation can be emulsified very efficiently by means of the egg yolk, which must be separated completely from the albumen for that purpose. It is emulsified with the aid of the proper quantity of water in the manner in which cod-liver oil emulsions with egg yolk are started. After emulsification, the white or albumen can be added. Your method otherwise appears to be correct. We do not agree that combination with albumen as an iodo-albumen which occurs in this case does not alter the action of the iodine. The iodine does not exist any longer as the free element and the therapeutic action is considerably modified, mostly in the direction of releasing in small quantities to the system. It is somewhat akin to the old controversy over colourless tincture of iodine. In regard to bromine and white of egg replacing potassium bromide with white of egg for bleeding, we think the result doubtful and unsatisfactory. Brom-albumen or bromo-protein is made from egg-albumen and has been used for epilepsy. It is a dry powder, and as such there is no chance of free bromine being present which might occur in a liquid preparation. The result of that would not be pleasant.]

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

S. D. (25/38).—TOBACCO FLAVOURS.—So far as we are aware, there is no book dealing exclusively with the flavours used in tobacco and cigarettes, but you will find a number of formulas on this subject in "Pharmaceutical Formulas" Volume II.

C. E. & P. G. (16/33).—PILE CURE TABLETS.—The formula for which you ask is as follows:—

Senna	...	...	...	...	1 gr.
Scammony	...	...	...	...	$\frac{1}{2}$ gr.
Sulphur	...	...	...	...	$\frac{1}{4}$ gr.
Phenolphthalein	...	...	...	...	$1\frac{1}{2}$ gr.

A. S. G. (25/34).—CLEANING POWDER PUFFS.—The cleaning of swansdown puffs is generally done with benzol, but it is rather a delicate operation. If the puffs are not too badly soiled, it might be worth experimenting with magnesium carbonate.

I. P. S. (30/30).—COMPLEXION MILK.—A formula for complexion milk is as follows:—

Soap, in flakes	...	...	...	...	1 oz.
Water	...	...	...	...	3 oz.

Heat and dissolve, then add

White wax	...	...	...	...	$\frac{1}{2}$ oz.
Tincture of benzoin	...	...	...	...	2 dr.
Spermaceti	...	...	...	...	1 oz.
Cacao butter	...	...	...	...	$\frac{1}{2}$ oz.

Continue the application of heat, with constant stirring, until a thick homogeneous emulsion is obtained, then slowly add a hot solution of

Water	...	...	...	...	10 oz.
Glycerin and borax	...	...	...	...	2 oz.

Set aside to cool, then incorporate

Mucilage of tragacanth	...	...	...	...	10 oz.
Alcohol (90 per cent.)	...	...	...	...	2 oz.
Santalol	...	...	...	...	1 dr.
Oil of rose geranium	...	...	...	...	$1\frac{1}{2}$ dr.

If too thick a little water may be added.

Formulas for hair creams were published in the *C. & D.*, March 27, p. 384.

L. F. (6/6).—BEAUTY MILK.—The following is a formula for a preparation containing avocado oil:—

Avocado oil	...	...	...	...	4.0
Tea seed oil	...	...	...	...	8.0
Stearic acid	...	...	...	...	5.0
Triethanolamine	...	...	...	...	1.0
Mineral oil (viscosity 65/70)	...	...	...	...	8.0
Water	...	...	...	...	to 88.0
Perfume	...	...	...	...	a sufficiency

Apply with a small pledget of cotton, and allow it to remain on the skin for some time, preferably overnight.

W. G. (30/29).—DEPILATORIES.—If the usual depilatory creams have not been successful in removing the superfluous hair your customer should try electrolysis. Alternatives to the creams are:—

Liquid Depilatory

Sodium sulphide	...	...	...	...	2 dr.
Distilled witch hazel extract	...	...	...	...	$2\frac{1}{2}$ oz.

Apply by means of cotton-wool and wipe with dry cotton-wool. After two or three minutes wash the part with plenty of water and freely apply powdered starch, which can be wiped off in ten to twenty minutes.

The solution should be tested first on the arm to ascertain that it is active.

Wax Depilatory

Ceresin	...	...	...	...	1 oz.
Yellow beeswax	...	...	...	...	2 oz.
Resin	...	...	...	...	6 oz.
Alkanet root	...	...	...	...	2 dr.

Digest on a water bath for an hour, strain and perfume.

The wax is melted and poured over the part to be denuded of hair and allowed to cool. The hair becomes embedded in the wax, and on raising one end and sharply pulling the strip of wax off the skin the hair comes with it. The method is somewhat painful, but not severely so.

T. R. J. (22/27).—PRESERVING LABORATORY BENCH.—The following is a method of preparing wooden benches and protecting them from the effects of acids and alkalis. Three coatings of each solution are alternately applied, and finally, after a week, a coating of linseed oil.

1. Aniline chloride	...	...	...	...	15 gm.
Water	...	...	...	...	100 c.c.
2. Copper sulphate...	...	...	...	...	86 gm.
Potassium chlorate	...	...	...	...	77 gm.
Ammonium chloride	...	...	...	...	33 gm.
Water	...	...	...	...	1,000 c.c.

The wood is stained an intense black, and a coating of linseed oil once or twice during the year is sufficient to keep the surface in condition.

A. B. (19/28).—ADHESIVE.—We suggest you experiment with the following formula:—

Powdered tragacanth	...	...	...	...	2 oz.
Boiling water	...	...	...	...	16 oz.

Add the water to the tragacanth, stirring vigorously. Separately mix the following:—

Cold water	...	...	...	...	4 oz.
Rye flour	...	...	...	...	6 oz.
Dextrin	...	...	...	...	1 oz.

Add this to the tragacanth paste, mix well, and add, with constant stirring, boiling water 24 oz. and, later, glycerin 1 oz.; boil for a few minutes, stirring well, add solution of formaldehyde 1 dr., and cover.

A. R. (12/24).—AMMONIUM MANDELATE SYRUP.—As an alternative to the ammonium mandelate mixture published in the *C. & D.*, February 27, p. 264, you could try the following:—

Soluble saccharin	...	...	...	...	1 gm.
Ammonium chloride	...	...	...	...	50 gm.
Ammonium carbonate	...	...	...	...	80 gm.
Mandelic acid	...	...	...	...	200 gm.
Sucrose	...	...	...	...	400 gm.
Benzaldehyde	...	...	...	...	0.04 cc.
Oil of fennel	...	...	...	...	0.1 cc.
Anethol	...	...	...	...	1 cc.
Fluid extract of glycyrrhiza	...	...	...	...	175 cc.
Distilled water	...	...	...	...	to 1000 cc.

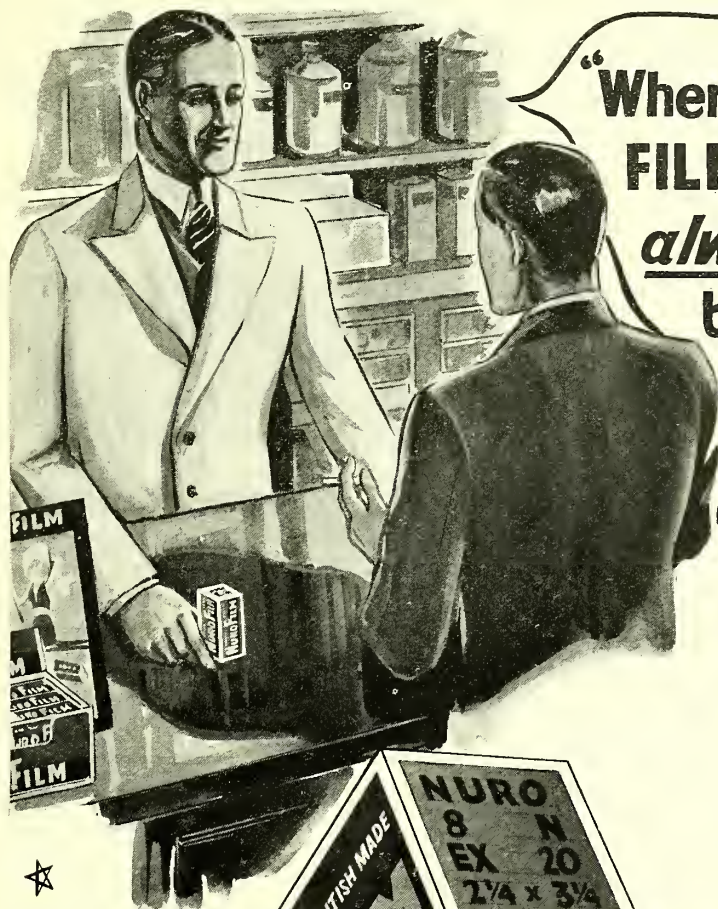
In a capacious vessel mix the mandelic acid and ammonium carbonate with 400 cc. of warm distilled water and let stand until effervescence ceases. Dissolve the ammonium chloride, saccharin and sucrose in this solution by agitation. Add the fluid extract in which the oils have been dissolved, and finally a sufficient quantity of distilled water to make 1000 cc. The average dose is 15 cc.—representing 3 gm. of mandelic acid and 0.75 gm. of ammonium chloride.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," April 2, 1887

Keeness in Business

All tradesmen, except chemists, are eager for novelties; they know it is these that make their business flourish healthily. . . . That there is a certain loss attendant on the free introduction of novelties has to be admitted, but it amounts to a very small percentage on the benefit to be acquired from a reputation among medical men and the public of being always abreast of the times. But this is merely intelligent shopkeeping, it may be said. Probably. It takes no account of the course of studies we have gone through to fit us to compound and dispense medicine and carry on the profession of pharmacy. Well, that is not strictly correct. Even the Pharmaceutical Society insists on an acquaintance with arithmetic, and among all the more abstruse subjects in which a pharmacist is tested there is none which he needs to hold on to more tightly than this. The most successful businesses in London and the provinces are conducted by men who understand the effects of addition and subtraction as correctly as they do those of precipitation and solution.



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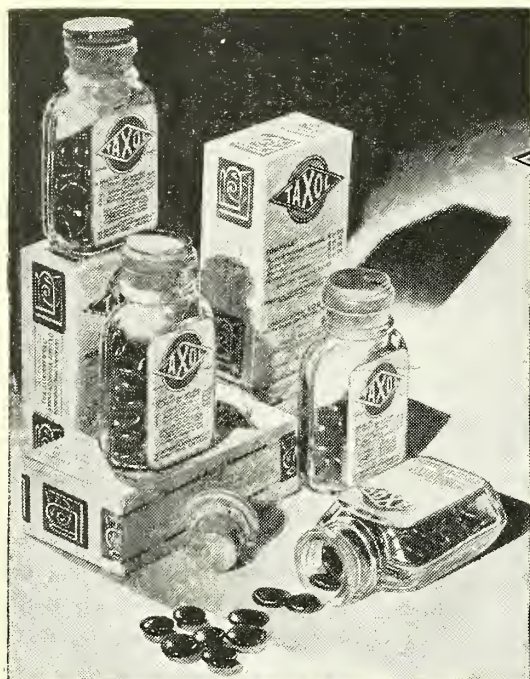


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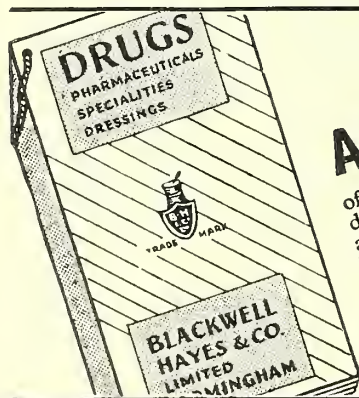
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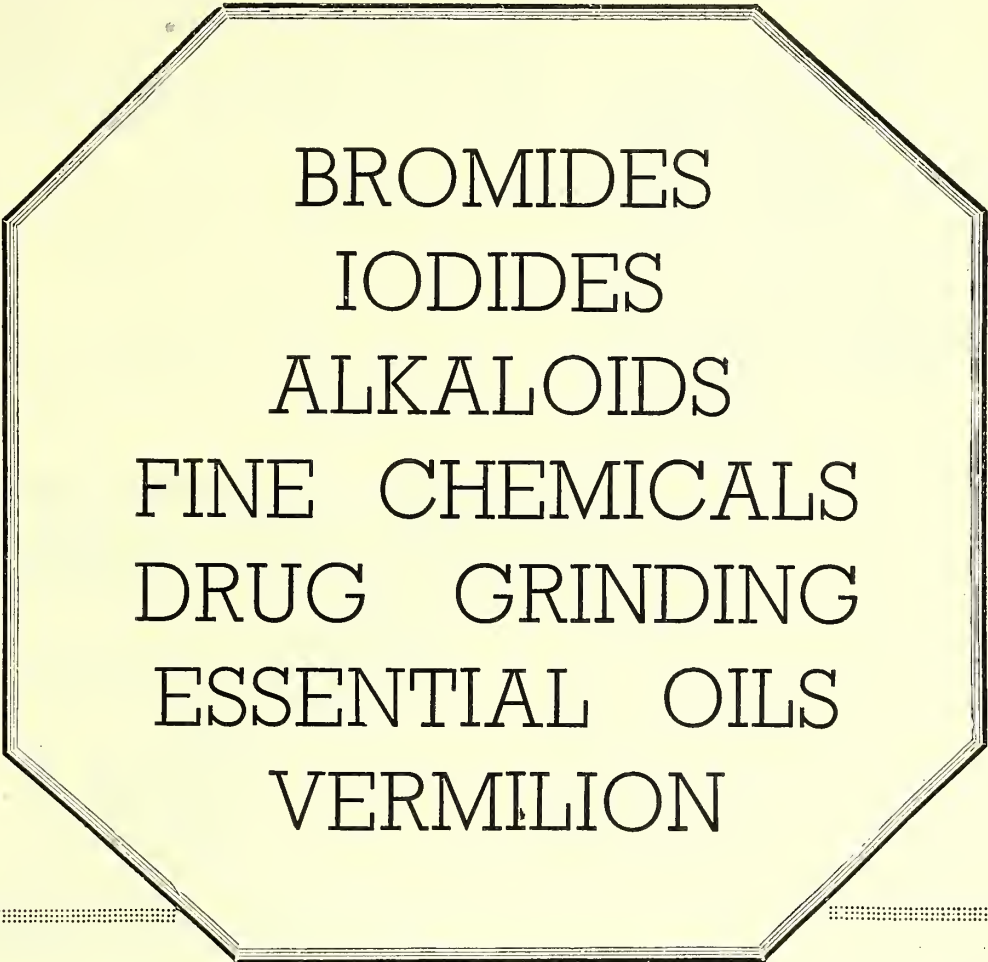
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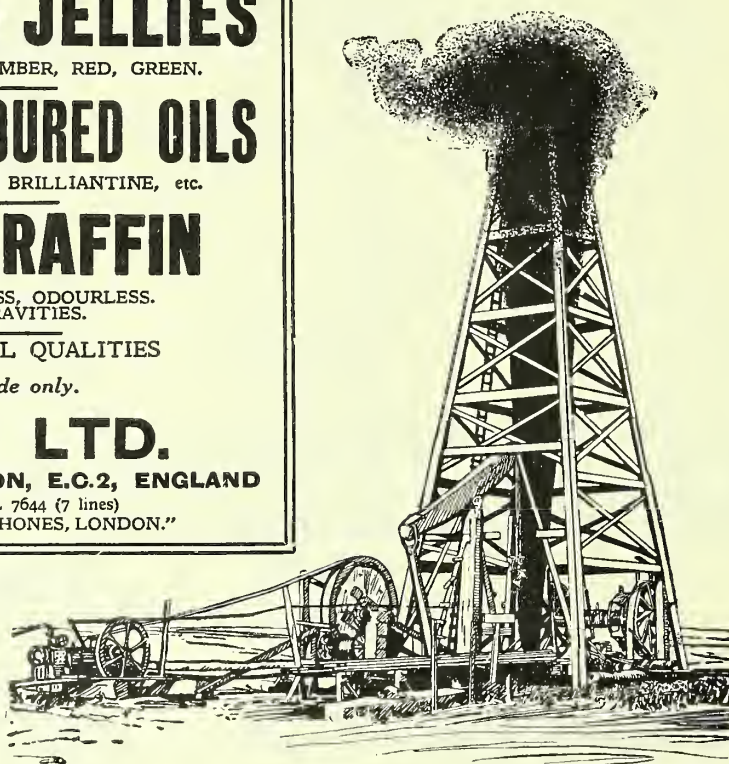
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THE CHEMIST & DRUGGIST DIARY AND YEAR-BOOK, 1936

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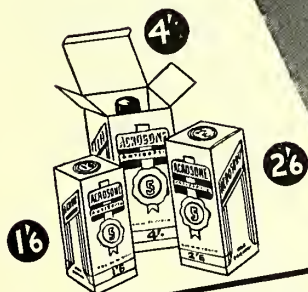
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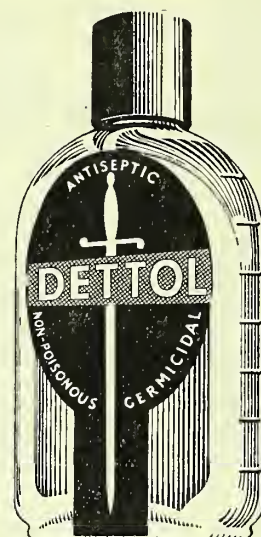
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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

APRIL 3,
1937

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LONDON, W.12.—Young Qualified Assistant required for Dispensing and Counter; permanency. State full particulars, age, experience and salary required, to Windwood, 96 Askew Road, Shepherd's Bush, W.12.

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ASSISTANT (22 to 24), Unqualified. Apply with usual particulars to J. Price, 42 Bath Street, Leamington Spa.

ASSISTANT, young, capable, Unqualified, required for high-class Retail, Bromley, Kent, early May; must be good Salesman and Window-dresser; full particulars in first letter. 37/41, Office of this Paper.

CAPABLE Qualified Manager wanted immediately, with Optical experience, to take control in South Wales; must be energetic, proved business builder, and furnish undeniable references; full particulars as to experience, with salary expected, in first application; applications not replied to within one week respectfully declined. Rees, Chemist, Port Talbot.

COMPETENT Qualified Assistant, lady or gentleman, with good experience; well up in N.H.I. Dispensing, Counter, Photography and Window-dressing; state age, salary expected, and when at liberty. Lyons, 182 Coldharbour Lane, S.E.5.

EXPERIENCED D. and P. worker required (either sex); first-quality work only; preference given to one who has experience of a Chemist's business. Full particulars of experience, age, references and salary required to Calkin, Chemist, Salcombe, South Devon.

FOR Holiday Relief Duty in Yorkshire.—Chemist required for the season, with view to permanency; good experience essential, including Dispensing, Counter and Display. Write Box 8355, Frost Smith Advertising, 64 Finsbury Pavement, E.C.2.

IF a Lady Pharmacist, not a Window-dresser nor Toilet Dispenser, but a Pharmacist, desires quiet Medical work, with view to possible succession, apply by letter only to S., c/o J. Egan, Fleet Street, Liverpool.

JUNIOR Assistant or Improver, for brisk Cash business in Croydon, easy reach South London Colleges; time for study could be arranged; no Sunday duty; state age, height, salary required and when at liberty. 37/9, Office of this Paper.

JUNIOR Assistant required for busy Family Dispensing business; must be well trained; Ealing, W.5. 37/46, Office of this Paper.

JUNIOR or Improver wanted. Please send full particulars, age, experience, salary required, etc., Watson & Co., 100 Mitcham Road, Tooting, S.W.17.

JUNIOR Qualified Lady required for good-class Dispensing business in London suburbs; good all-round training essential; accurate Dispenser; permanency to suitable applicant. Write Box 8357, Frost Smith Advertising, 64 Finsbury Pavement, E.C.2.

JUNIOR required shortly; only those well up in Dispensing need apply. Full particulars to J. A. Cordey, Chemist, 28 Amptill Road, Bedford.

JUNIOR wanted at once; opportunity to get first-class experience in Dispensing; all particulars in first letter, including photo if possible, and wages asked. H. Reynolds, 15 West Avenue, Worthing.

LADY Assistant, fully competent, for Toilet and Ladies' Requisite Counter, required for high-class N.W. London Pharmacy. Apply, stating salary, references, etc., to 298/767, Office of this Paper.

LADY Assistant, Unqualified; accustomed to Dispensing and the sale of Toilet Goods. Please give full particulars of experience, age, height, wages, etc., to "Chemist," 61 Station Road, North Harrow.

LOCUM required for Holiday Relief, June 7-19 inclusive, August 16-September 18 inclusive; send full particulars and state terms. J. M. Hughes, Ltd., 7 High Street, High Wycombe.

MANAGER required for shop in centre of Midlands city; a good Salesman, one able to control staff and possessing good Display ideas essential; the post, with an old-established firm, is permanent. Applicants should give fullest particulars, in strictest confidence, of experience, salary desired and photograph, if available, to 37/22, Office of this Paper.

PERMANENCY.—Unqualified Assistant, male, single; Liverpool district. Full particulars as to age, experience and salary to 37/13, Office of this Paper.

QUALIFIED Assistant (male) required for the season, commencing May 3 until the end of September. Apply with full particulars, age, experience, salary and photo if possible, B. Fish, Ltd., 48 Blackfriars Road, Great Yarmouth.

QUALIFIED Chemist for Relief duties in Birmingham district (age 25-35); good general experience; every likelihood of permanent engagement to suitable man on conclusion of relief duties. Write Box No. 8353, Frost Smith Advertising, 64 Finsbury Pavement, E.C.2.

QUALIFIED Junior Assistant (lady or gentleman) required for country business; no Sunday duty, usual half-holiday. Apply, with full particulars, including age, height, salary required, photograph and references, to Smith, Chemist, Downham Market, Norfolk.

QUALIFIED Junior or experienced Unqualified Assistant required; no Sunday or half-holiday duty; quick and accurate Dispenser; knowledge of Photography; full particulars in first letter of age, experience and salary required. Liner, Chemist, Great Yarmouth.

QUALIFIED Lady or Gentleman; N. London Pharmacy; Window-dressing ability an advantage; shorter hours might be considered where private study, etc., desired; elderly person might suit if efficient. State lowest commencing salary, when free, age, etc., BM/JPH, London, W.C.1.

QUALIFIED Man (aged 25 to 30) required as Shop Manager of mixed country business, including Wines and Groceries; state full particulars and salary required; enclose photo, to be returned. Strickland & Holt, Yarm, Yorks.

QUALIFIED Manager, with Optical qualification, required for high-class Pharmacy near London; living accommodation provided; state full particulars, age, height, previous experience, and salary expected. 298/769, Office of this Paper.

REQUIRED at once, Qualified Assistant (male) for permanency in Good-class West End Business; holidays given. Please write, giving full details of experience, age, height and salary expected, C. R. Wood, 164 Notting Hill Gate, W.11 (Park 6141).

REQUIRED.—Qualified Lady or Gentleman for branch shop; one used to quick Cash Retail with N.H.I. Apply by letter, stating age, experience and salary etc., with photo if possible, C. A. Moore, Dispensing Chemist, 350 Eastern Avenue, Ilford.

REQUIRED, the services of First-class Manager (26-30; married) for business situated S.W. London; only those with good references and who are alive to the interests of their employer need apply; thorough knowledge of Photography essential; living accommodation. Masons Dispensing Chemists Ltd., 89 Acre Lane, Brixton, S.W.2.

ROBERTS & CO., 76 New Bond Street, W.1, require Qualified Dispenser (under 25). Apply by letter, stating experience.

UNQUALIFIED Assistant (male) (age 18-20 years); good prospects. Apply L. Garfield, 5 North Parade, Mollison Way, Burnt Oak, Edgware.

UNQUALIFIED Assistant (preferably just out of apprenticeship) required for middle-class business. Send full particulars and references to B. H. Butler, Chemist, 195 London Road, Reading.

UNQUALIFIED Assistant wanted; must be fully capable in D. and P. work, especially Velox printing; permanency to suitable applicant; state full details of experience, age, wages required, etc. 38/6, Office of this Paper.

UNQUALIFIED; High-class Toilet, Perfumery, Packed Drugs; no Dispensing; photograph, references, usual particulars. Bathes Ltd., Fleet Street, Torquay.

UNQUALIFIED Junior Assistant (unmarried) with good-class experience, including Photographic, Counter and Window-dressing, required shortly for South Coast. Reply, giving full particulars, salary required and photo, to 34/8, Office of this Paper.

WANTED, London, E., Qualified Assistant; Counter, Window, Dispensing, etc.; capable of taking charge of small business with occasional help. Also Assistant; Thursday evening and Sunday, or every evening; salaries must be moderate. Particulars "Pharmacist," 705 Lea Bridge Road, Leyton, E.10.

WANTED.—Qualified Lady and Gentleman for middle-class Family business; locums (give free dates) and permanency (both sexes) required. Write, with usual particulars, when free, references, salary, etc., to 37/7, Office of this Paper.

WORKS Welfare Organisation, London, requires young M.P.S. for Dispensing and N.H.I. work; resident in N.W. London area preferred. Full particulars salary and references by letter only to Prestage & Co., Accountants, 14 Bolton Street, London, W.1.

YOUNG Lady Assistant for the season from end of June to September; experienced in the Toilet and Photographic Counter; please state salary, references, and photograph would be appreciated (to be returned). Edwin Thorp & Son, Dispensing Chemists, Aldwick Road, Bognor Regis.

YOUNG Qualified Assistant wanted at once for Hants district. State age, salary, experience and references to 38/2, Office of this Paper.

YOUNG Qualified M.P.S. (24) required for Dispensing and Counter Duties; one requiring further experience suitable. The Prosser Roberts Co., 85/87 Lambeth Walk, London, S.E.11.

YOUNG Unqualified Assistant, male, required for Dispensing business in Essex. Apply, giving full particulars of age, experience and salary required, 37/47, Office of this Paper.

YOUNG Unqualified Assistant (male). Write, stating particulars salary, experience, to Jenkins, Managing Director, A. L. Williams Ltd., Bush Street, Pembroke Dock.

YOUNG Unqualified Assistant, of good appearance, and with a knowledge of Optics, required for High-class Chemists' and Opticians' Business. Apply, stating full particulars as to age, experience, salary required, etc., to A. E. & G. L. Weston, Chemists and Opticians, 284 High Road, Streatham, S.W.16.

YOUNG Unqualified Lady Assistant required for Dispensing, Supervision of Packing Department and for Interviewing women customers. Apply Hancock & Co., 144 Fleet Street, E.C.4.

WHOLESALE

EXCELLENT SIDELINE.—Camera Manufacturers require live Representatives in various counties; must have good connexions amongst Chemists; to carry exceptionally good and ready-selling line at popular price, showing 33½ per cent; state fullest particulars. 298/766, Office of this Paper.

JUNIOR Male Clerk required in Sales Department of London Wholesale Druggists. Write, with details of experience, salary required, etc., 298/768, Office of this Paper.

MEDICAL Representative required to call on Medical Profession, introducing products of well-known Ethical Pharmaceutical House; single man, 25 to 30 years of age; previous experience not essential, but must be Qualified Chemist. Write, giving age, qualification, etc., 298/765, Office of this Paper.

REPRESENTATIVES all over the country required to carry an additional Unique Sideline during the Coronation period on a commission basis. 37/3, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When replying to advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. Many of these announcements produce an exceptionally large response and, as can be readily understood, the task of returning photographs, testimonials, &c., is one of some difficulty.

REPRESENTATIVE for the Eastern Counties and South-East Coast of England.—Smart Salesman, with own car and good connexion amongst Chemists, Druggists, Surgical Stores, etc., wanted for first-class Surgical and Medical Rubber Goods; satisfactory references required; capable man with initiative and personality can build up remunerative position; liberal commissions allowed and minimum weekly earnings guaranteed, or expenses and commission. Applications to 37/11, Office of this Paper.

SALESMAN, with first-class connexion with Chemists and Hairdressers, required for Midlands area; must own car and be well known to the trade; salary, commission and expenses; highest references required; only high-class man need apply. Write Box 521, Dorland, 14 Regent Street, S.W.1.

SHORTHAND-TYPIST (lady) required for South London, with extensive experience in the Wholesale Drug Trade. Reply, giving full particulars and salary required, to P.C.B. 239/4, Office of this Paper.

WANTED immediately, young, experienced Capsule Maker (machine made). State age, experience and salary required, Wands Ltd., Wandol House, Leicester.

WANTED.—Junior male for Drug Department, Wholesale Wet and Dries; state age, experience, salary, etc. C. H. White, Ltd., Ruskin Works, Oldbury Road, Smethwick, Staffs.

COLONIAL, INDIAN AND FOREIGN

HOMOEOPATHIC Chemist, unmarried, wanted for British Dominion, preferably M.P.S., but Unqualified Assistant having good experience Manufacture and Prescribing of Homoeopathic Remedies might be considered. Write, giving full details, to 298/772, Office of this Paper.

YOUNG Man, with practical knowledge and experience in Manufacture of Toilet Preparations, Creams, Perfumes, etc.; wanted for Denmark. Apply with full particulars as to experience, remuneration expected to 298/770, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—QUALIFIED Manager (34), smart appearance, excellent sales record, West End, City, seaside and all-round experience, Photographic, Toilets and Cosmetics, desires Managership; South Coast preferred; at present Managing in London; free one month; interview desired. 37/6, Office of this Paper.

A.A.A.—QUALIFIED Chemist (height 5 ft. 11 in.) seeks position in West End; excellent experience in all classes of business; Window-dresser, Prescriber, Photographer. 37/56, Office of this Paper.

A COMPETENT Dispenser and Senior requires position in London or suburbs; thorough knowledge of Pharmacy; disengaged shortly from locum; permanency; London references. "Aspirin," 33 Sussex Avenue, Ashford, Kent.

A LOCUM, Qualified, registered; experienced; free now until June 28. "S. N. H.," 34 Santos Road, S.W.18. Phone: Putney 4946.

A QUALIFIED Manager (31), married, desires progressive post, London; experienced and trustworthy; with or without accommodation; interview Thursdays. 37/34, Office of this Paper.

A SSISTANT, good all-round; 16 years last reference; Unqualified; permanency or locum; London area. Stevens, 46 Maybury Gardens, Willesden Green, N.W.10.

A SSISTANT Lady Dispenser seeks post, part or full time; Hall certificate; experienced; Brighton or easy distance. 89 Ditching Road, Brighton.

A SSISTANT, Unqualified, desires permanency or locum in London; fully experienced Dispensing, Counter, Photography and Window-dressing; well recommended. 37/51, Office of this Paper.

ASSISTANT, Unqualified, desires position; best all-round West End experience; disengaged. "M.," 25 St. Stephen's Road, Bayswater, W.2.

ASSISTANT, Unqualified; experienced Dispensing, Counter; part-time, locum, permanency; London only; disengaged. Write "C. G.," 2A Yalding Road, Bermondsey, S.E.16.

ASSISTANT (22), male, Part I, desires post in Lancashire or North; start in four weeks; photo, references on application; state salary etc. 36/12, Office of this Paper.

ASSISTANT (35), Unqualified; West End and City; good Counter, Dispensing and all-round experience; disengaged; permanency or locum. 27/37, Office of this Paper.

ASSISTANT (38), Unregistered, West-End experience all branches, desires change; 14 years present situation; undeniable references. 37/39, Office of this Paper.

CHEMIST (28), late manager, Piccadilly, desires position with high-class Pharmacy where capabilities and initiative will be appreciated; good personal appearance and address; thoroughly experienced in every branch of Pharmacy; Representative position considered. "Chemist," 67 Guilford Street, W.C.1.

CHEMIST, 25 years as Branch Manager (retired on pension), offers services as locum in Middlesex, Herts or Bucks. "Pharmacist," "Dunollie," Lancing Way, Croxley Green, Herts.

EXPERIENCED all-round Assistant; Unqualified (46); tall; disengaged; permanency or locum; well recommended. Haigh, 54 Bulwer Street, Shepherd's Bush, W.12.

LADY Assistant (32) requires West-End post; Toilets and Perfumery; experience; references; £2 10s. per week. 34/2, Office of this Paper.

LADY Dispenser, Hall qualification, experienced, desires light post; Doctor or Chemist; Brighton, Hove, Worthing. "B.," 14 Marine View, Kingsway, Hove, Sussex.

LADY (Hall) desires re-engagement; experienced Private and Panel Dispensing; careful worker; disengaged now. Tomlinson, 219 Elgin Avenue, W.9.

LIVERPOOL DISTRICT.—Good opportunity to secure efficient Manager or Qualified Assistant (30); married. "N. R. W.," 12 Lanfranc Close, Liverpool, 16.

LOCUM, experienced, has a few vacant dates for London or suburbs; registered N.P.U.; total abstainer. Liberty 2748, 5 Trinity Road, Wimbledon, S.W.19.

LOCUM, free for April. Write "S. R.," 345 Garratt Lane, Earlsfield, London, S.W.18.

LOCUM, M.P.S., 24 years abroad, requires light work for reasonable remuneration whilst getting into touch with English conditions and looking for a good-class business to purchase. Tavener, 3 Essex Road, Stevenage.

LOCUM, Qualified, good varied experience and references, disengaged April 12. S. T. Hoskins, c/o Mr. Targett, Chemist, Sidcup Kent.

LOCUM, Qualified (32), genuinely experienced; bookings open for April and May; terms moderate. Apply "B.," 4 Maze Hill Terrace, St. Leonards-on-Sea. Tel.: Hastings 3217.

LOCUM (37); free now; Qualified; advertiser seeks permanency. Beck, 193 Harrow View, Harrow. Gerrard 1699.

NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

MANAGER, Qualified (32), seeks position as Manager or position of trust; experienced in all branches of Pharmacy; would prefer living accommodation over shop and within reach of London, though latter not essential; free immediately. "S. R.," 345 Garratt Lane, Earlsfield, S.W.18.

MANAGERSHIP, Qualified; locum; London; 20 years' Managerial experience; free month; salary; West Country appreciated. "M.P.S.," 72 Victoria Road, Ruislip, Middlesex.

M.P.S., CAPABLE, reliable; whole or part time; French and German spoken; first-class references; advantageous terms. 37/28, Office of this Paper.

PHOTOGRAPHER requires studio or shop work; long experience in London and Paris as Chief Photographer to important company. Apply 34/9, Office of this Paper.

QUALIFIED, elderly, active; locum or permanent. T., 33 Barbara Street, N.7.

QUALIFIED Locum (25), reliable and experienced, booking forward; Southern England or West Country preferred. 36/18, Office of this Paper.

QUALIFIED Optician, J.C.Q.O., thoroughly experienced Unqualified Chemist, keen, energetic, good appearance, middle-age, desires position. 35/8, Office of this Paper.

QUALIFIED requires permanency near London; experienced Counter, Dispensing, Photographic, Managing, etc. Apply Pharmacist, 52 Tyrwhitt Road, Brockley, S.E.4.

QUALIFIED (25) requires position as Manager; London and country experience; excellent references; Home Counties or West Country preferred, but not essential; free one month; state salary. 39/1, Office of this Paper.

QUALIFIED (23½), Square-trained, desires change; South Devon preferred, not essential. 37/55, Office of this Paper.

UNQUALIFIED, 30 years' all-round experience, seeks permanency; quick, accurate Dispenser; exceptional Salesman; references. "Cascara," 41 Grantham Road, Sparkbrook, Birmingham.

WHOLESALE

CAPABLE Lady, Unqualified, desires position with Wholesale Firm; exceptional experience; hard worker; moderate remuneration until ability fully proved. 37/25, Office of this Paper.

ADVERTISER (youthful 38), General Manager of small Manufacturing Company in London, handling well-known Proprietary and Ethical Products through Doctors and Chemists, desires opportunity to help a more active firm; sound knowledge of Accountancy, Organising and Marketing; fullest particulars at interview. F.C.B. 240/2, Office of this Paper.

ADVERTISER (38), single, abstainer, adaptable, smart and progressive, seeks post, Checker, Dryroom Assistant or Stock-keeper; excellent references; 20 years' experience Wholesale Trade. 37/16, Office of this Paper.

FOREWOMAN seeks position in Factory; used to Controlling Female Labour; experienced in Labelling, Wrapping, etc. 36/5, Office of this Paper.

PHARMACIST, many years' Retail, Hospital and Private Practice experience, seeks Representative, Supervisory or Medical Propagandist position; car available. "Pharmacist," 23 Old Manor Drive, Isleworth, Middlesex.

QUALIFIED Chemist desires position as Yorkshire Representative to Wholesale Firm. F. B. Curran, 5A Coney Street, York.

REPRESENTATIVE with established connexion amongst Chemists, Principal Hairdressers, Stores, Co-ops in N., N.W., E., E.C., part W. London desires to get in touch with reputable firm; sole representation or sidelines. Winstone, 175 Bushey Hill Lane, Watford.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

WELL-EDUCATED Scottish Qualified Chemist (25), tall, wishes Representative post in Scotland; extensive knowledge of Therapeutics, Physiology, Bacteriology; references to character and ability. 35/11, Office of this Paper.

YOUNG energetic Scot, M.P.S., F.F.Sc., F.I.C.A., thoroughly conversant with every phase of the business, desires interview with progressive house with view to Works or Staff Managership; first-class Retail and Wholesale experience; now Representing Pharmaceutical, Dental and Medical House of repute; part Representation entertained; capabilities bear strictest investigation. 37/12, Office of this Paper.

YOUNG Man (23), tall, 7 years' Retail experience, desires position with Drug or Toilet Firm as Representative; references. 37/43, Office of this Paper.

FOR SALE

(Articles to the value of £5-£50.)

SMALL Cash Register, "National"; prints sales on roll; gives total; perfect, but unwanted. Write P. Mann, 24B Hereford Road, W.2.

MISCELLANEOUS

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A BRILLIANT Pharmacy, £69 10s., in mahogany; 11 ft. 6 in. Drug Fixture, 12 Drawers, Glass Labels, Bottom Section 5 Cupboards, 2 Lockers; Top Section 3 Mirror-lined Cupboard Doors and Recesses, with Shop Round Shelves; 10 ft. Glass-fronted Counter, 8 ft. Wall Case, 6 ft. Dispensing Screen and Counter; mirror centre. Write RUDDUCK, 219 Old Street, London, E.C.1, for "National" Cash Registers and Safes.

CHEMISTS' FITTINGS.—New and Second-hand Drug Runs, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shopfitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

CHEMISTS.—Please note new address when you are wanting Shopfittings. GEORGE COOK, The Working Shopfitter, 174A St. John's Road, Hyde Road, N.1. Phone: Clerk. 5371. Shop Fronts, Interior Fittings in Oak or Mahogany. Sketches and estimates free.

DESIGNS AND ESTIMATES FREE.—Chemists' Shop Fronts and Interior Fittings; high-grade work at economical charges; distinctive detail. F. RUSHTON & CO., Shopfitters, 290 High Road, Willesden, London, N.W.10. Phone: Willesden 5744.

OWING to Disposal of Lease, I have for Immediate Disposal Mahogany Fixtures and Fittings of a Pharmacy, comprising Wall Cases, Dispensing Screen, Counter, 6-ft. Silent Salesman, Drug Runs, etc.; full details upon application; also appointments made to view. S. F. CLARK, Chemists' Valuer, 34 Marksbury Avenue, Richmond, Surrey. Telephone: Prospect 3366.

SALES VACANCIES.—Every year some 4,000 new men enter Selling Positions to replace retirements, etc. You can quickly qualify, through interesting spare-time study, to receive introductions to outdoor Salaried Sales Positions. We have placed in good posts hundreds of men without past sales experience. Send to-day for your free copy of 32-page book, "Salesmanship," to THE WALLACE ATTWOOD COLLEGE, LTD., Dept. 84, Victoria House, Southampton Row, London, W.C.1.

TO EDIBLE OLIVE OIL PACKERS.—Having overbought, offers are invited for 20/25 tons Finest Spanish Cream Edible Olive Oil, packed in 45-gallon drums, lying in London, duty paid. Apply 298/773, Office of this Paper.

£35.—COMPLETE Set of Second-hand Modern Mahogany Fittings.—8 ft. Drug Fitting, with Showcase to top part and drawers below; 8 ft. Serving Counter; 5 ft. Mirror-backed Wall Showcase; 6 ft. Dispensing Screen, with mirror centre; a typical example of our sale prices. Call or write, PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. Phone: Clerk. 4111/2. "Pharmacy Fitters for over a century."

£2.—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting. Signs and modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

EXCHANGE COLUMN

2d. per word, minimum 2s. (Box No., 1s. extra.)

FOR DISPOSAL

(Articles up to the value of £5.)

FOR Sale, cheap, Autoway Automatic Weighing Machine; price £5; cost £30. Post Office, Long Ditton, Surrey.

WANTED

A DVERTISER wishes to secure copy of "Chemist and Druggist" dated OCTOBER 1885 or would purchase entire volume for that year. Offers, stating price, to 298/775, Office of this Paper.

CORONATION BANQUET, APRIL 6.—Advertiser would be glad to purchase spare Ticket. Offers to 298/774, Office of this Paper.

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PF2

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SODIUM SALICYLATE B.P.

MONSANTO CHEMICALS LIMITED
VICTORIA STATION HOUSE, VICTORIA STREET, LONDON, S.W.1
NORTHERN SALES OFFICE, KING'S HOUSE, KING STREET W., MANCHESTER



INCREASES YOUR PROFIT

MARIENBAD SLIMMING TABLETS are obtainable in three styles of packing:

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- 3) 20 Days' Slimming Treatment
- 4) Marienbad Slimming Treatment

Packed in card boxes containing 60 silver-coated tablets.

Weight Card and full diet instructions are enclosed in each box.

Price 9/6 dozen, usual retail price 2/-

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